TOPOGRAPHIC FEATURES

- EXISTING UNDERGROUND ELECTRIC CABLE (UE)
- EXISTING UNDERGROUND TELEPHONE CABLE (UT)
- EXISTING WATERMAIN LINE (W)
- EXISTING UNDERGROUND GAS LINE (G)
- VEGETATION LINE
- RAILROAD TRACKS
- NATURAL WATER FEATURE
- EXISTING STORM SEWER LINE
- EXISTING SANITARY SEWER (SAN)
- APPROXIMATE RIGHT-OF-WAY LINE
- RAILROAD RIGHT OF WAY
- EXISTING PROFILE GRADE
- FENCE (X)
- PAVED ROADWAY
- UNPAVED ROADWAY
- BUILDING W/HOUSE NUMBER (HOUSE #41)
- HORIZONTAL CONTROL POINT
- EXISTING POWER POLE
- VALVE (V)
- FIRE HYDRANT
- WATER SHUT OFF VALVE
- EXISTING CURB INLET
- EXISTING STORM MANHOLE (MH) (ST)
- EXISTING SANITARY MANHOLE (MH) (S)
- SOIL BORING LOCATION & NUMBER (B1)
- SIGN
- MAILBOX
- BRUSH
- TREES
- PROPOSED SANITARY SEWER LINE
- PROPOSED STORM SEWER LINE
- PROPOSED WATERMAIN LINE (W)
- PROPOSED STORM MANHOLE (MH) (ST)
- PROPOSED SANITARY MANHOLE (MH) (S)
- PROPOSED VALVE (V)
- PROPOSED FIRE HYDRANT
- PROPOSED WATER SHUT OFF VALVE
- PROPOSED CURB INLET
- PROPOSED PAVED ROADWAY

ABBREVIATIONS

℄	CENTER LINE
₽	PROPERTY LINE
Ø	DIAMETER
∠	ANGLE
@	AT
BM	BENCH MARK
FV	FIELD VERIFY
RCP	REINFORCED CONCRETE PIPE
CMP	CORRUGATED METAL PIPE
CCP	CONCRETE CYLINDER PIPE
DIP	DUCTILE IRON PIPE
CTRS	CENTERS
TYP	TYPICAL
MIN	MINIMUM
ELEV	ELEVATION
INV	INVERT
DIA	DIAMETER
CSW	CONCRETE SIDEWALK
SS	STAINLESS STEEL
LF	LINEAL FEET
ROW	RIGHT-OF-WAY

EROSION CONTROL SYMBOLS

- SILT FENCE
- STRAW BALES
- EROSION MAT
- TRACKING PAD
- FLOW DIRECTION

UNDERGROUND UTILITIES

THE LOCATIONS OF UNDERGROUND UTILITIES SHOWN ON THE PLAN HAVE BEEN OBTAINED BY FIELD CHECKS AND SEARCHES OF AVAILABLE RECORDS. WHILE IT IS BELIEVED THAT THEY ARE ESSENTIALLY CORRECT, DAVY ENGINEERING COMPANY DOES NOT GUARANTEE THEIR ACCURACY NOR THEIR COMPLETENESS. THE CONTRACTOR SHALL VERIFY LOCATIONS WITH UTILITY COMPANIES BEFORE MAKING ANY EXCAVATIONS.

GENERAL PROJECT NOTES:

1. EXACT SEWER SERVICE LOCATIONS SHALL BE DETERMINED IN THE FIELD DURING CONSTRUCTION.
2. DRIVEWAY ACCESS SHALL BE RESTORED IMMEDIATELY AFTER THE TRENCH IS BACKFILLED.
3. THE CONTRACTOR SHALL NOT CUT OR TRIM ANY TREES UNLESS PERMISSION FROM THE OWNER IS RECEIVED.
4. ALL SEWER PIPELINES SHALL BE INSULATED IF CONSTRUCTED WITHIN 5½ FEET OF THE GROUND SURFACE OR WITHIN 2 FEET OF A STORM SEWER. INSULATION SHALL BE AS SPECIFIED IN SECTION 8.8.0.

PRELIMINARY FOR REVIEW

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C1.1	DEMOLITION PLAN
C2.0	SITE PLAN
C3.0	UTILITY PLAN
C3.1	UTILITY PLAN & PROFILE
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C5.0	OVERALL GRADING PLAN
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C6.0	LANDSCAPE PLAN
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C7.3	WATERMAIN DETAILS
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C7.5	PAVEMENT DETAILS
L1.0	LIGHTING PLAN

N

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POPE ASSOCIATES, INC.
1295 BANDANA BLVD N, SUITE 200
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(651) 642-9200 | FAX (651) 642-1101
www.popearch.com

BETHANY LUTHERAN HOMES
A GUNDERSEN HEALTH SYSTEM AFFILIATE

EAGLE CREST
SOUTH ADDITION
PHASE 2
LA CROSSE, WI

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La Crosse, WI 54601
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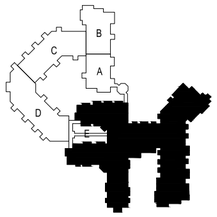

GENERAL NOTES, SYMBOLS, & ABBREVIATIONS

Issue / Revisions:
02/16/2018

Connection No: 11067-002.020
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Checked by: DRC

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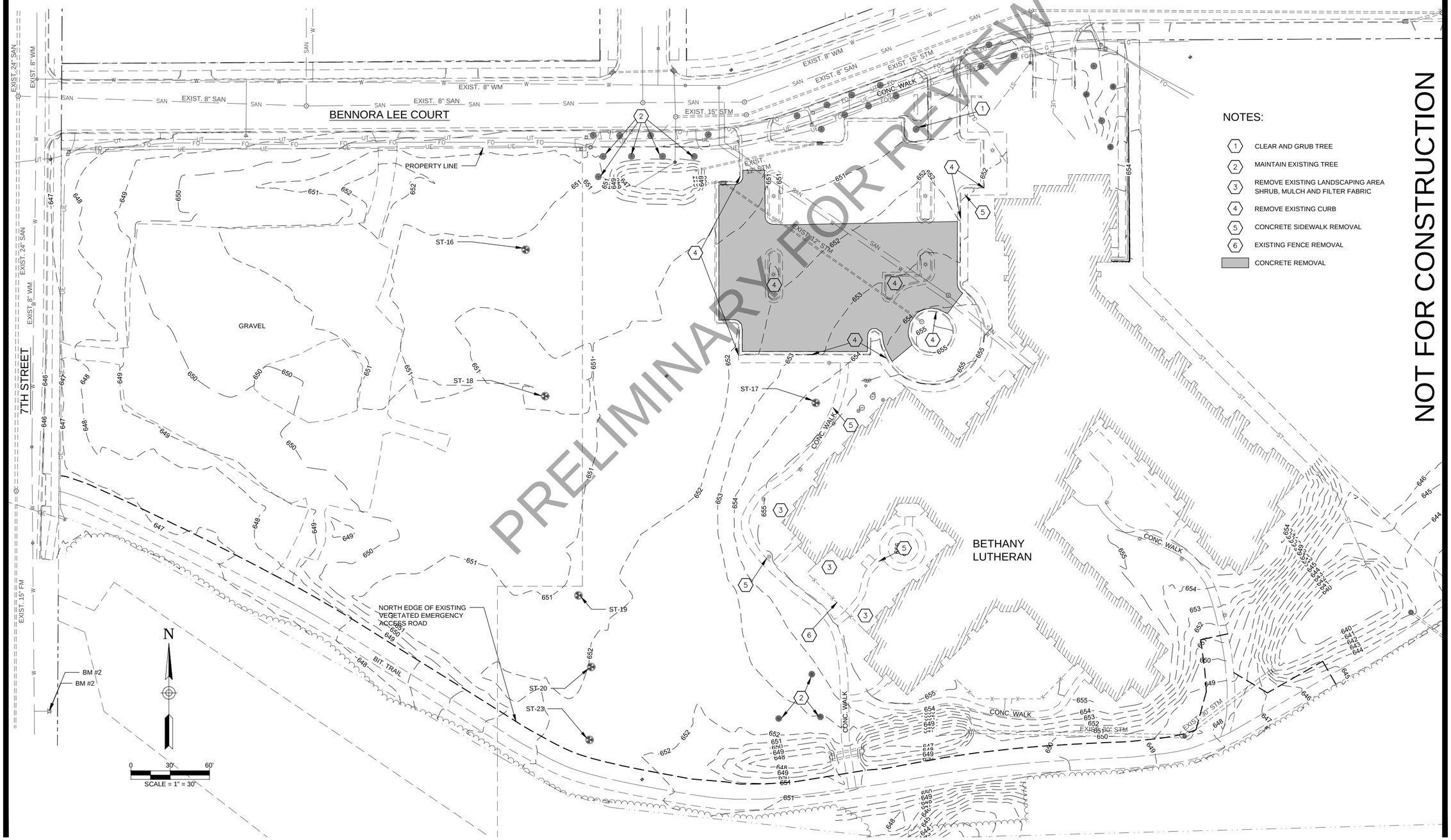

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NOTES:

1. CLEAR AND GRUB TREE
2. MAINTAIN EXISTING TREE
3. REMOVE EXISTING LANDSCAPING AREA SHRUB, MULCH AND FILTER FABRIC
4. REMOVE EXISTING CURB
5. CONCRETE SIDEWALK REMOVAL
6. EXISTING FENCE REMOVAL

CONCRETE REMOVAL

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LA CROSSE, WI

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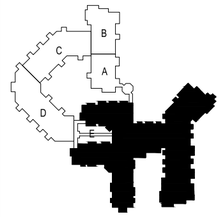

DEMOLITION PLAN

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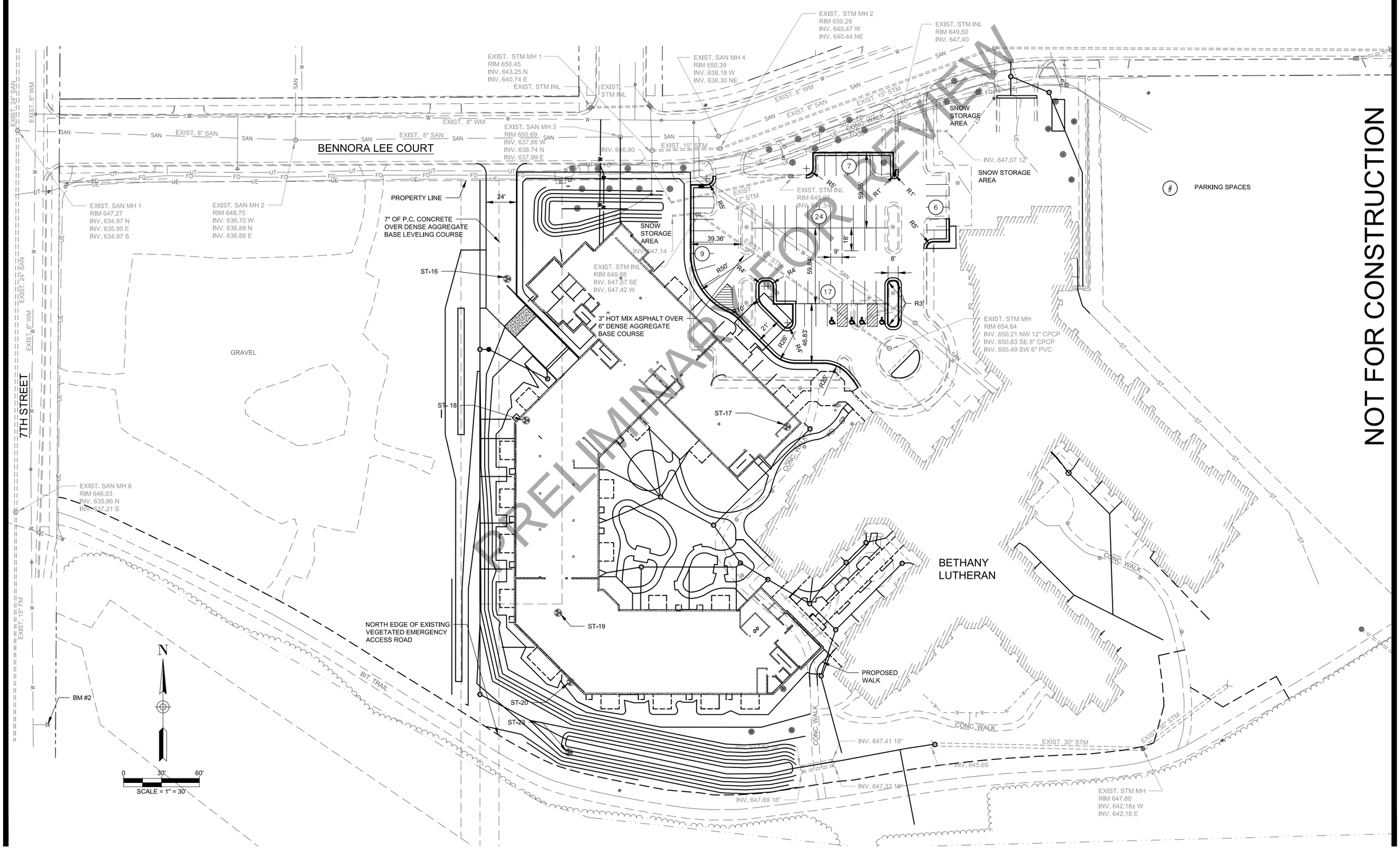

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A GUNDERSEN HEALTH SYSTEM AFFILIATE

EAGLE CREST
SOUTH ADDITION
PHASE 2
LA CROSSE, WI

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SITE PLAN

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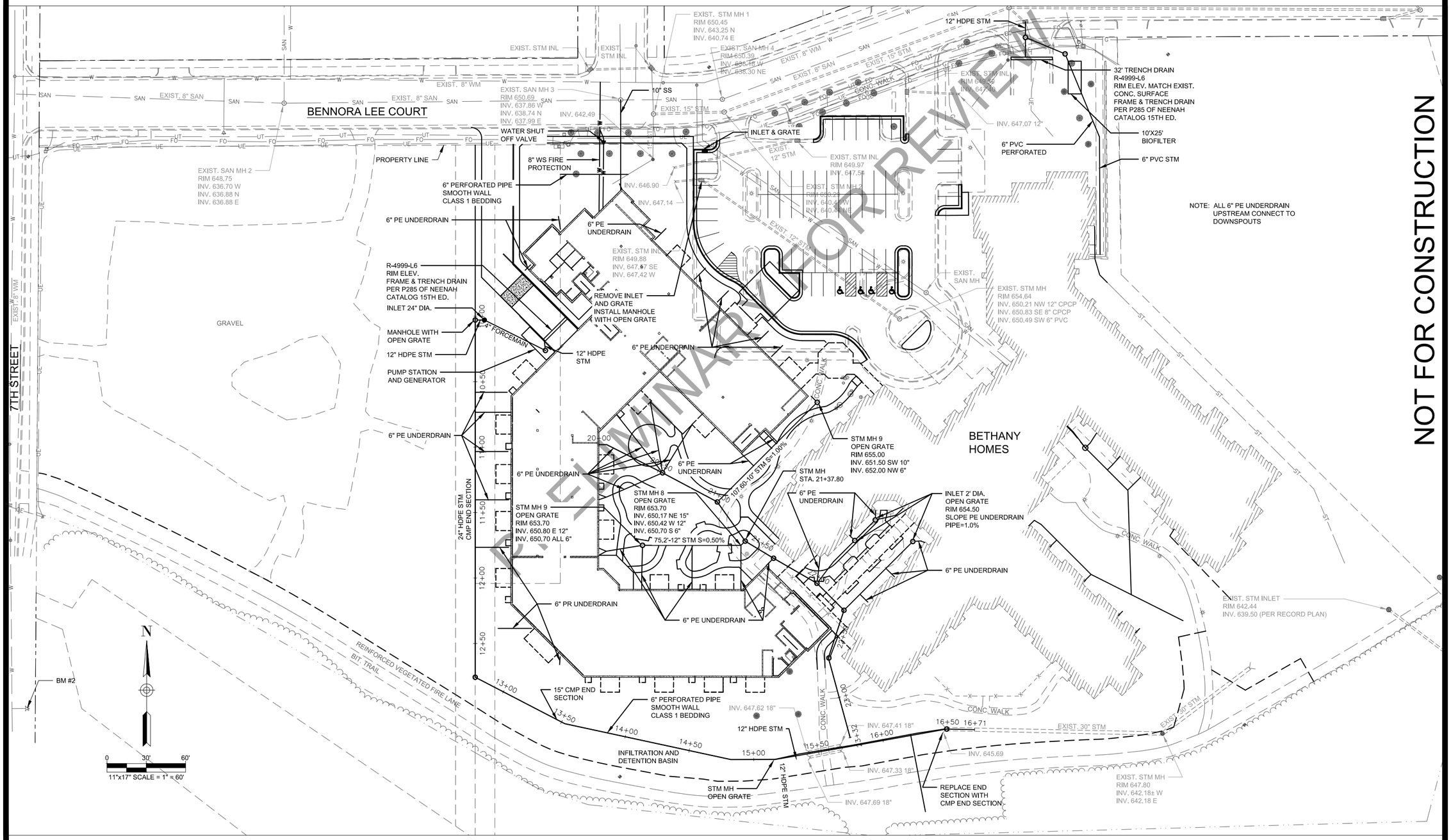

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www.popearch.com

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A GUNDERSEN HEALTH SYSTEM AFFILIATE

EAGLE CREST
SOUTH ADDITION
PHASE 2
LA CROSSE, WI

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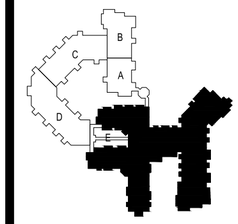

UTILITY PLAN

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	02/16/2018

Project No.	11067-002.020
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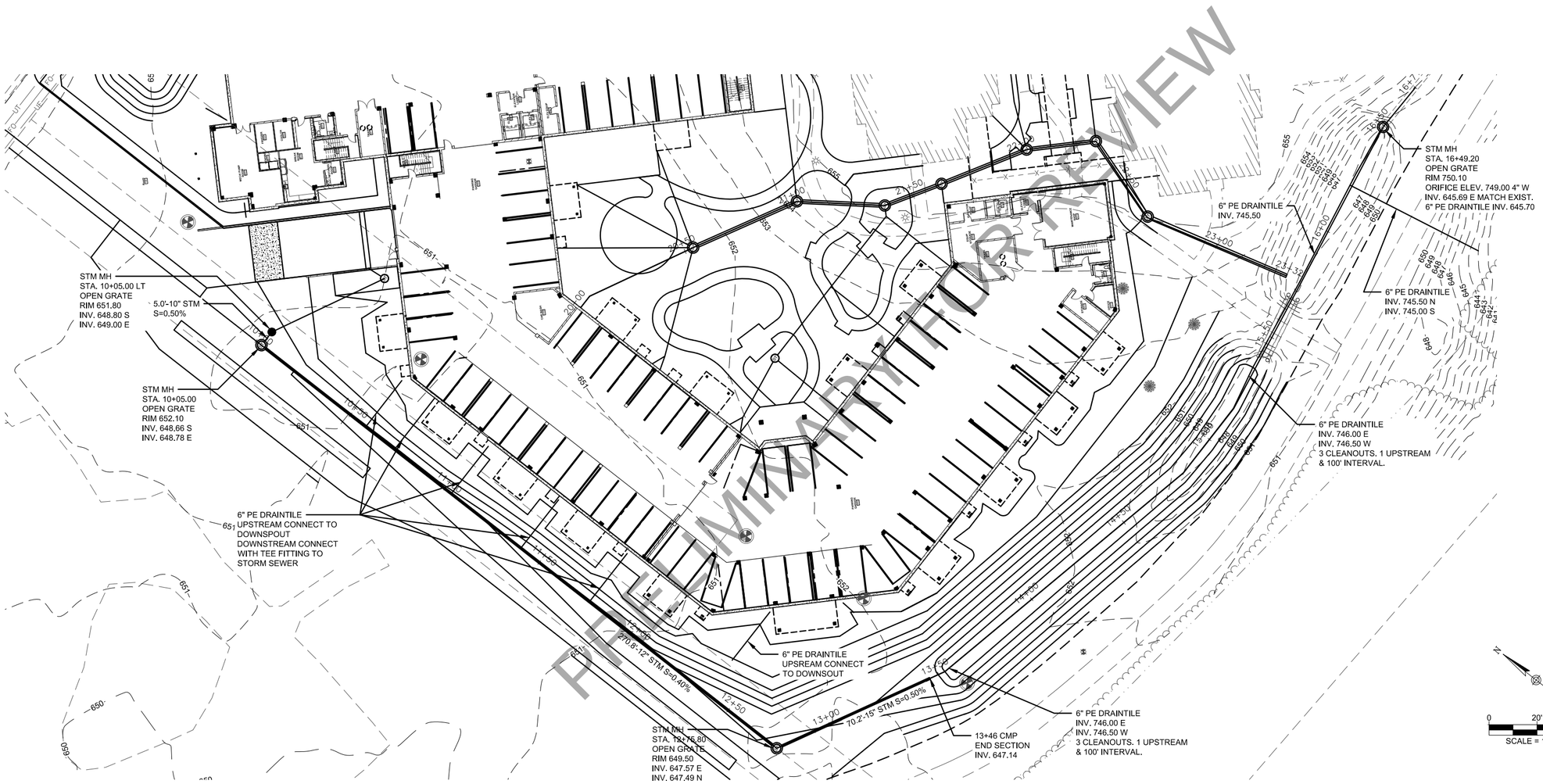

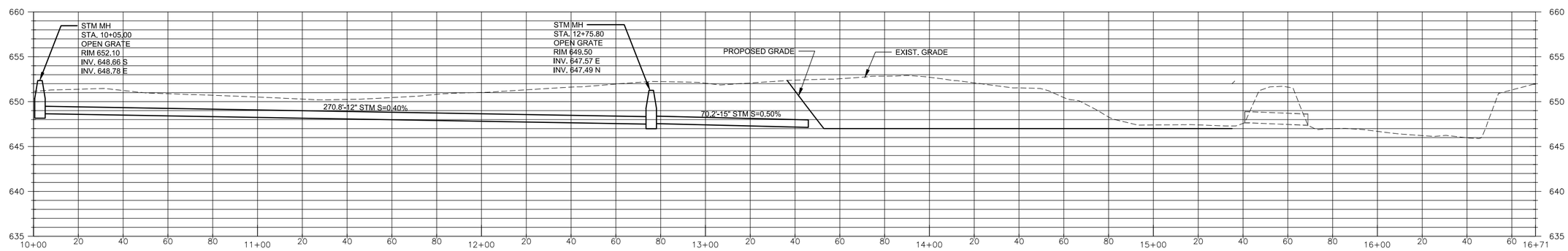

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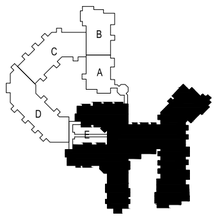

UTILITY PROFILE

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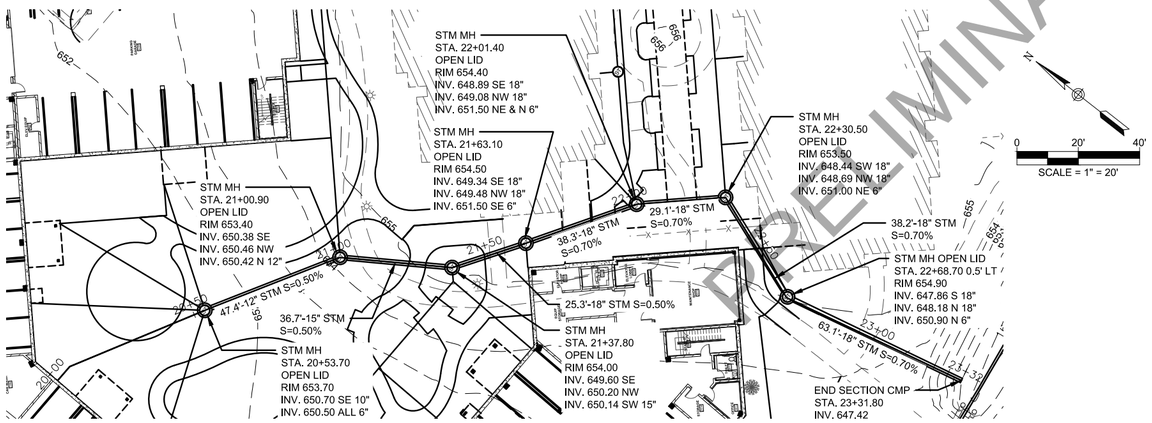

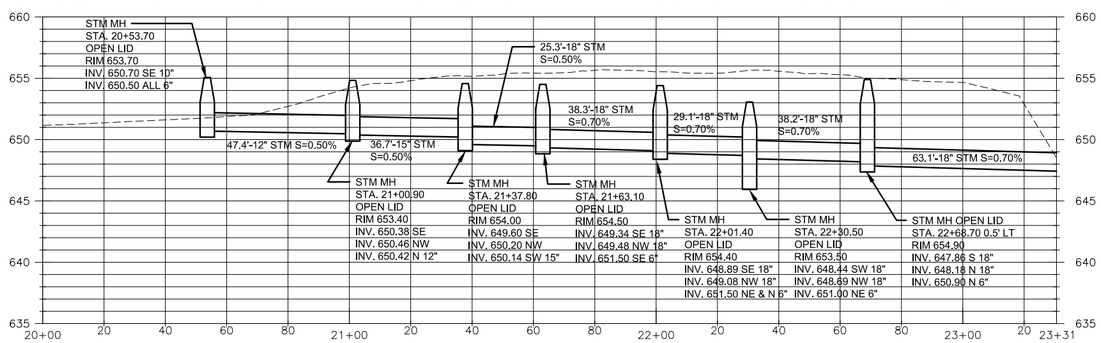

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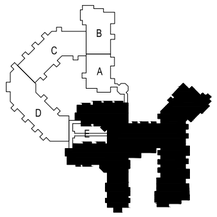

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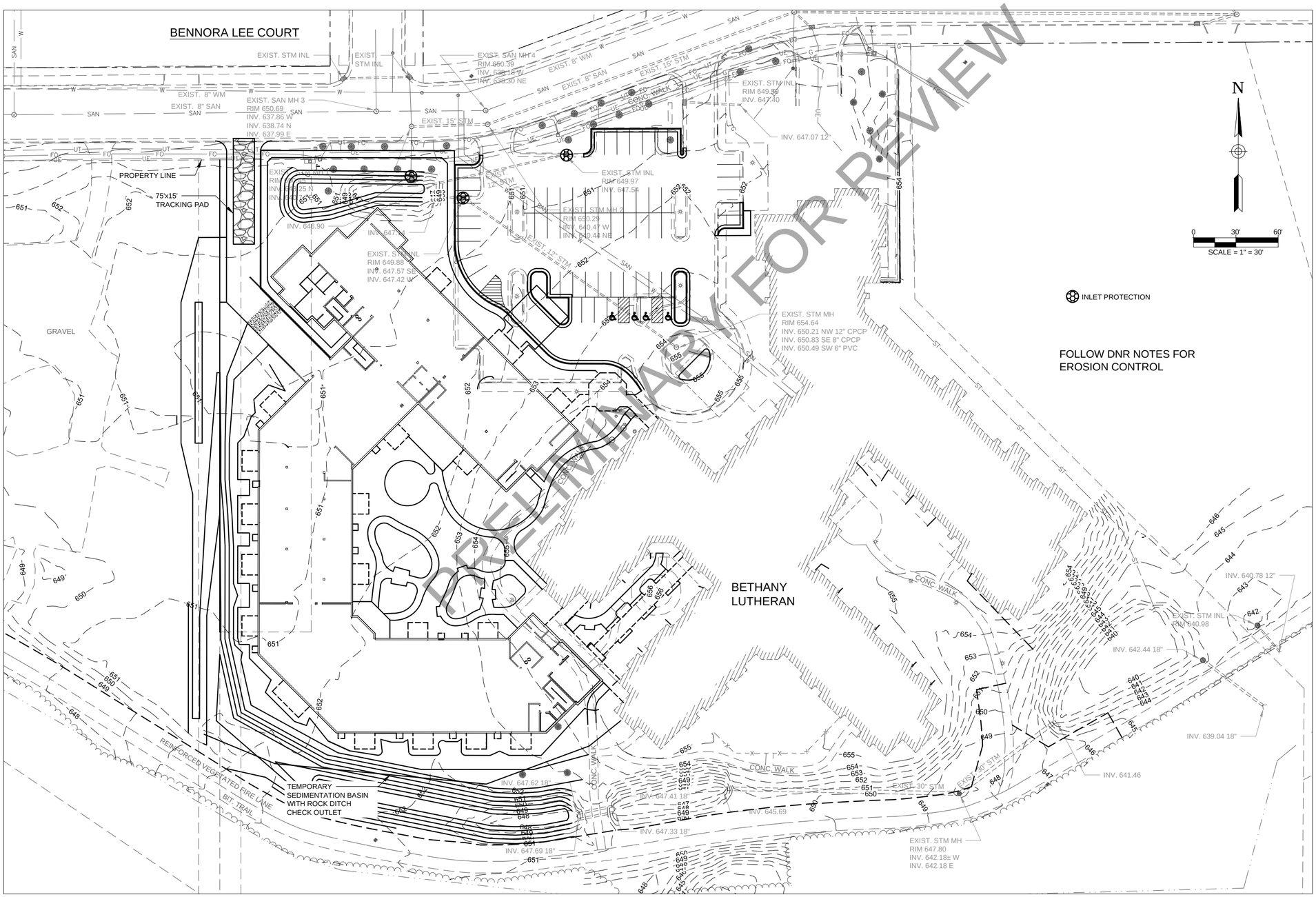

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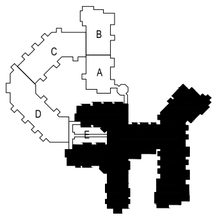

EROSION
CONTROL PLAN

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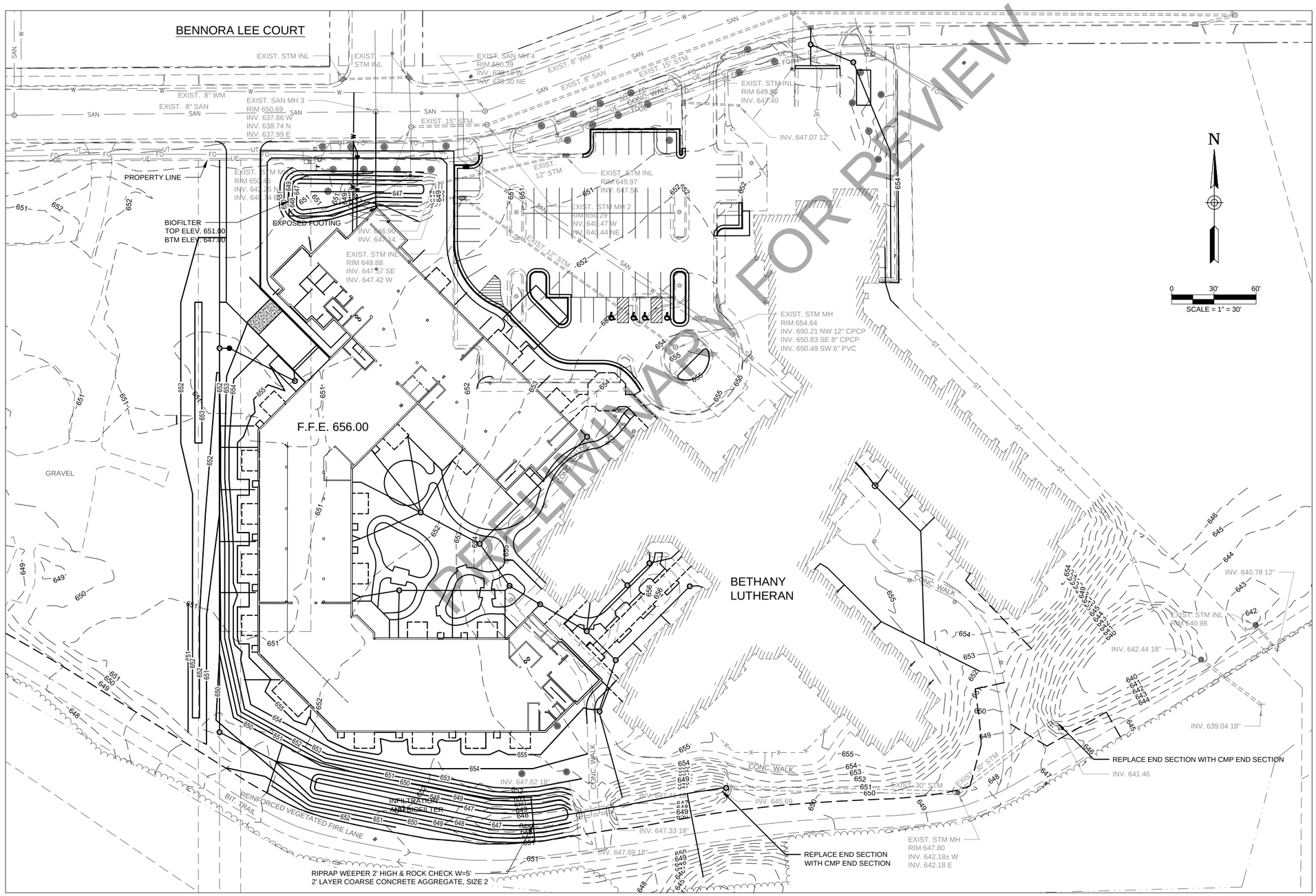

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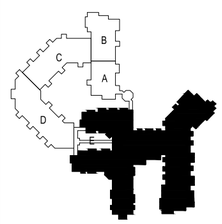

OVERALL
GRADING PLAN

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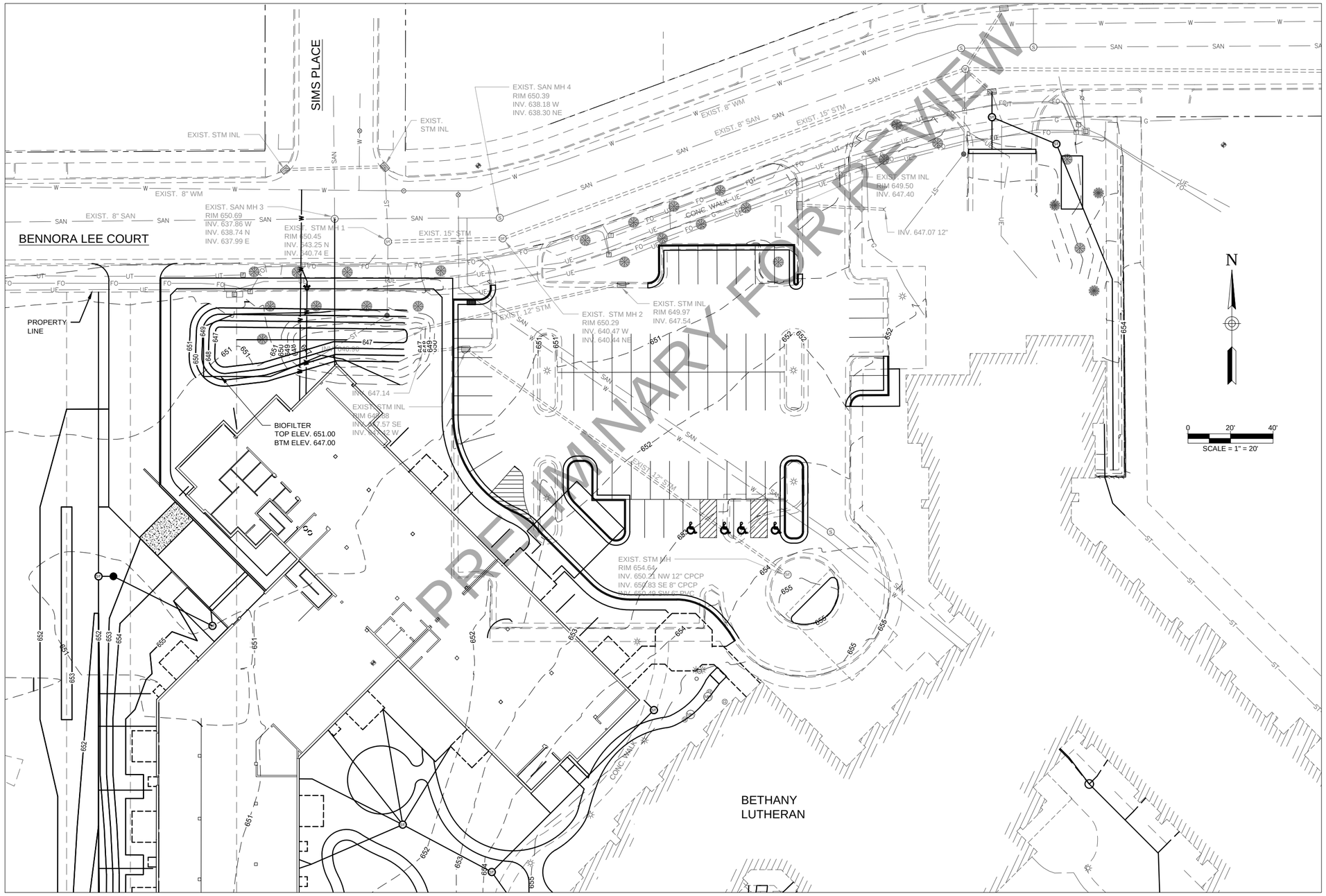

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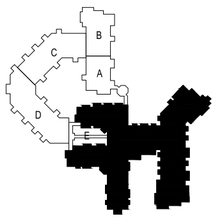

GRADING PLAN
NORTH

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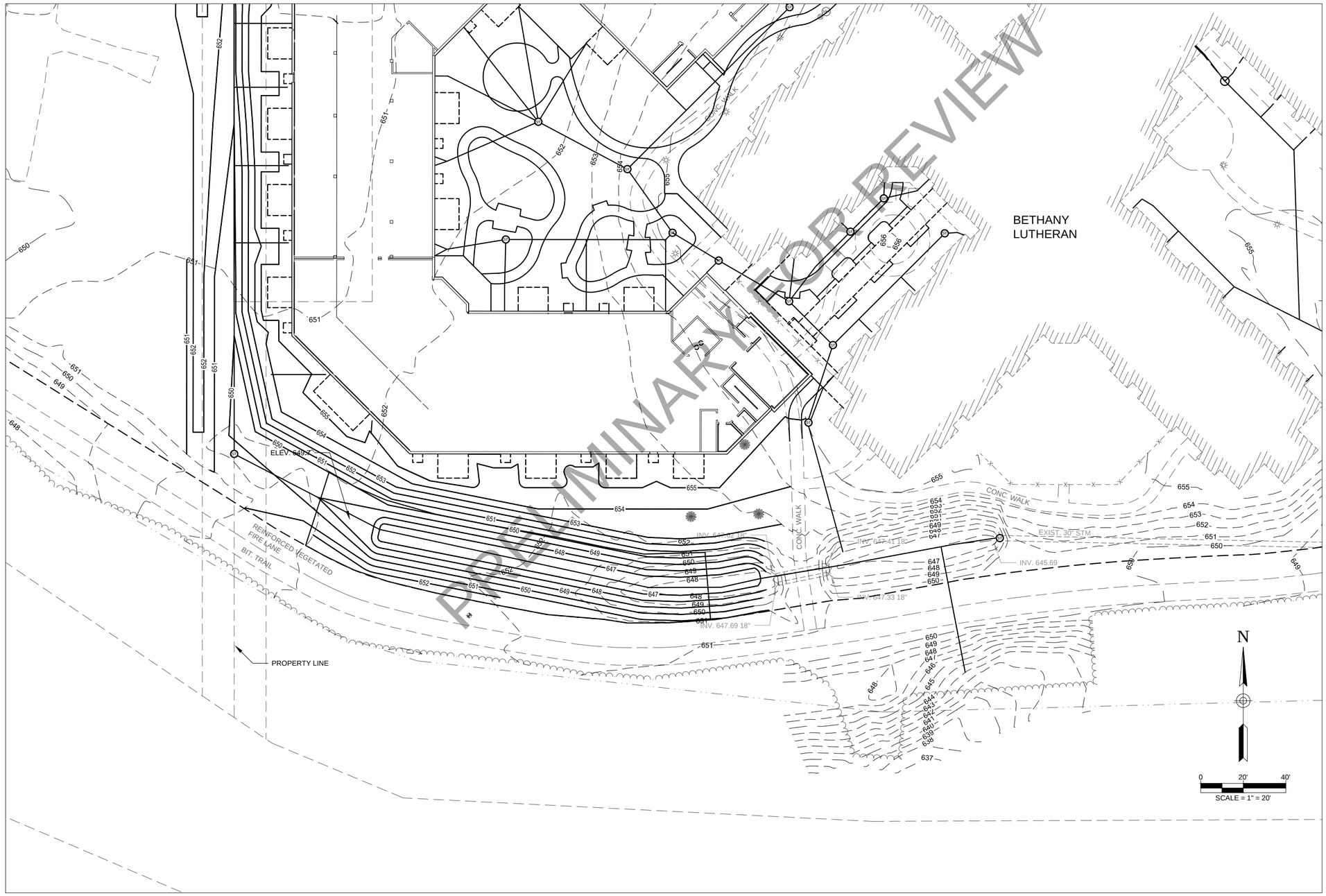

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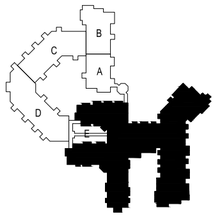

GRADING PLAN
SOUTHWEST

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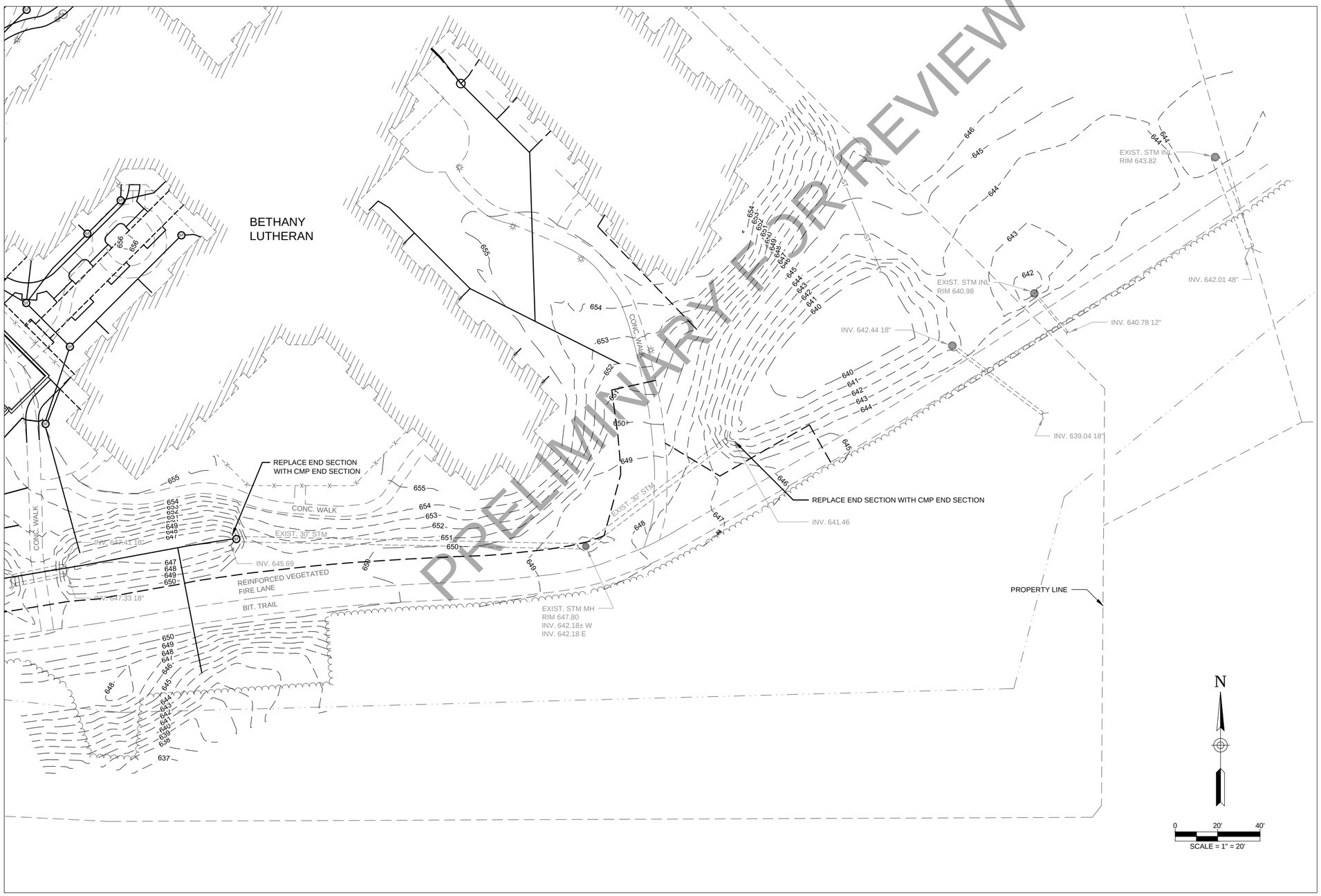

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www.popearch.com

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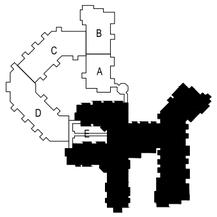

GRADING PLAN
SOUTHEAST

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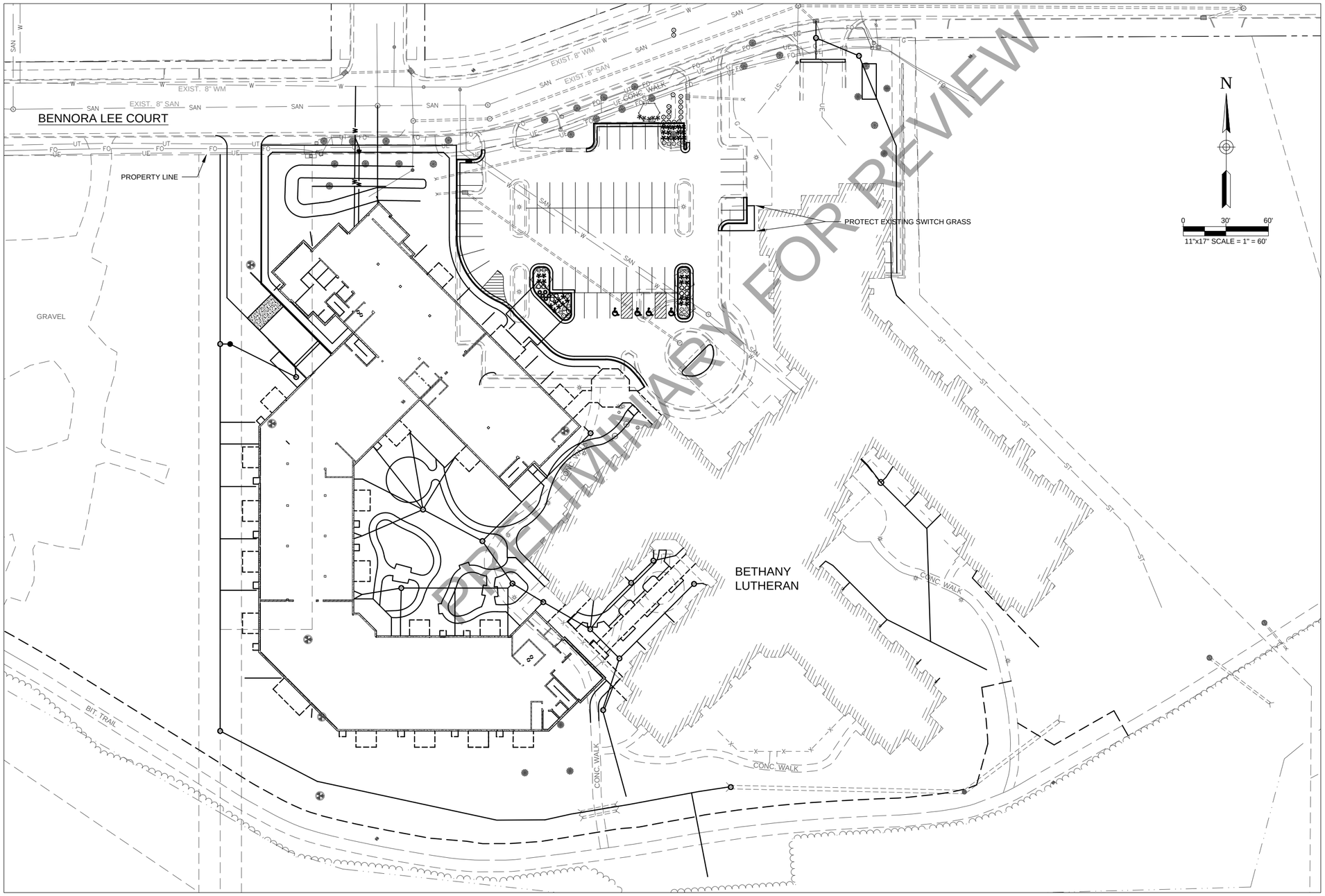

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POPE ARCHITECTS

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1295 BANDANA BLVD N, SUITE 200
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(651) 642-9200 | FAX (651) 642-1101
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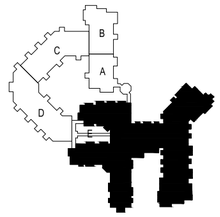
BETHANY LUTHERAN HOMES
A GUNDERSEN HEALTH SYSTEM AFFILIATE



LANDSCAPING PLAN

Issues and Revisions
02/16/2018

Expansion No: 11067-002.020
Drawn by: KK
Checked by: DRC

SHEET
C6.0

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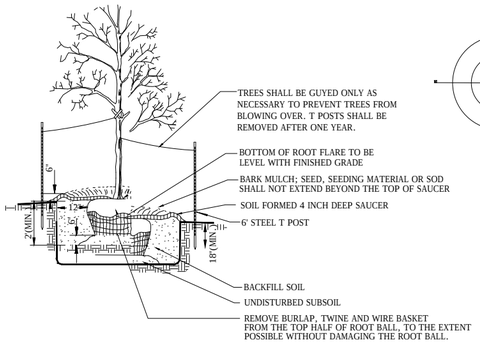
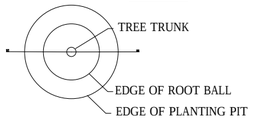
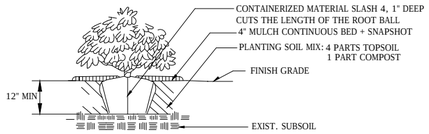


TREE PLANTING DETAIL - ALL TREES

NO SCALE

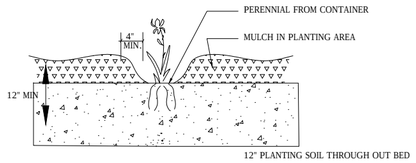
PLAN





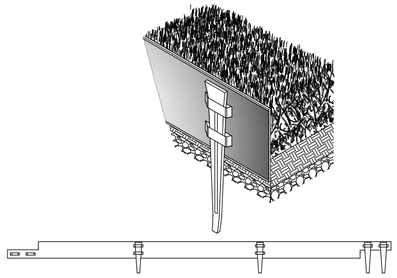
SHRUB PLANTING DETAIL

NO SCALE



POTTED PLANTS PLANTING DETAIL

NO SCALE



NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. ALL DIMENSIONS ARE CONSIDERED TRUE AND REFLECT MANUFACTURER'S SPECIFICATIONS.

3/16" ALUMINUM EDGING DETAIL

NO SCALE

NOTES:

1. All landscape beds to be edged with 3/16" x 4" x 16' Aluminum Edging by Sure Lok
2. All planting beds to receive 12" of imprted planting soil
3. All sod areas to receive 6" imported topsoil/Highland Sod: Varieties included Midnight,Total Eclipse,Absolute, NuGlade or Rugby Kentucky Bluegrasses 12-12-12 fertilizer applied at 1 pound N per 1000 sq ft
4. All areas outside of sod limits to receive 4" of salvaged on site topsoil and seed/straw mulch Seed shall be Highway Mix #3 available from La Crosse Seed applied at 7# per 1,000 sq ft/300# per acre
5. Bio-Cell in South East corner of project to reveive Wis. Dot #80 seed blend applied at 1# per1,000 sq ft/Nurse crop seeding at 1# per 1,000 sq ft. Install Erosion Mat Class II.Type A
6. All planting beds 4" of shredded mulch
7. Landscape contractor to provide all maintenance for 30 days after the final vegetation has germinated.
8. Seed disturbed areas on south side of bike path with Highway Mix #3

Plant Summary

Broadleaf Deciduous

Quantity	Code Name	Common Name	Scientific Name	Planting Size	Comments
21	ssm	State Street Maple	Acer miyabei 'Morton'	3" B&B	
7	abs	Autumn Brilliance Serviceberry	Amelanchier x grandiflora 'Autumn Brilliance'	2" B&B	
4	wsb	Whitespire Birch	Betula populifolia 'Whitespire'	8-10/2" B&B	
4	wft	White Fringe Tree	Chionanthus virginicus	2" B&B	
1	psg	Princeton Sentry Ginkgo	Ginkgo biloba 'Princeton Sentry'	3" B&B	
7	amn	Ann Magnolia	Magnolia liliflora x stellata 'Ann'	2" B&B	
5	elp	Exclamation London Planetree	Platanus x acerifolia 'Morton Circle'	3" B&B	
3	jop	Jack Ornamental Pear	Pyrus calleryana 'Jaczam'	2" B&B	
5	npo	Northern Pin Oak	Quercus ellipsoidalis	3" B&B	
9	nhe	New Horizon Elm	Ulmus (japonica x pumila) 'New Horizon'	3" B&B	

Conifer Evergreen

Quantity	Code Name	Common Name	Scientific Name	Planting Size	Comments
5	wgb	Wintergreen Boxwood	Buxus microphylla 'Wintergreen'	#5	
16	dfj	Daubs Frosted Juniper	Juniperous x media 'Daubs Frosted'	#5	
15	rsc	Russian Cypress	Microbiota decussata	#5	
10	dns	Dwarf Norway Spruce	Picea abies 'Pumila'	#5	
9	bhs	Black Hills Spruce	Picea glauca densata	6' B&B	
3	ssp	Serbian Spruce	Picea omorika	6' B&B	
15	smp	Sherwoods Compact Mugo Pine	Pinus mugo 'Sherwoods Compact'	#5	
3	ewp	Eastern White Pine	Pinus strobus	6' B&B	
4	dgc	Dark Green Cedar	Thuja occidentalis 'Nigra'	5' B&B	

Grass

Quantity	Code Name	Common Name	Scientific Name	Planting Size	Comments
20	erg	Eldorado Reed Grass	Calamagrostis acutiflora 'Eldorado'	#1	
29	vmg	Variegated Moor Grass	Molina caerulea 'Variegata'	#1	
52	ssg	Shenandoah Switch Grass	Panicum virgatum 'Shenandoah'	#1	
31	blb	Blue Heaven Little Bluestem	Schizachyrium scoparium 'MinnblueA'	#1	
81	tdg	Tara Dropseed Grass	Sporobolus heterolepis 'Tara'	#1	

Perennial

Quantity	Code Name	Common Name	Scientific Name	Planting Size	Comments
32	ssy	Strawberry Seduction Yarrow	Achillea millefolium 'Strawberry Seduction'	#1	
37	sba	Summer Beauty Allium	Allium tanguticum 'Summer Beauty'	#1	
48	bia	Blue Ice Amsonia	Amsonia 'Blue Ice'	#1	
15	bvg	Biokovo Geranium	Geranium cantbrigiense 'Biokovo'	#1	
45	mfg	Max Frei Geranium	Geranium sanginuem 'Max Frei'	#1	
15	sgh	Stained Glass Hosta	Hosta 'Stained Glass'	#1	
18	fgr	Fireworks Goldenrod	Solidago rugosa 'Fireworks'	#1	

Shrub

Quantity	Code Name	Common Name	Scientific Name	Planting Size	Comments
10	rrb	Rosy Rocket Barberry	Berberis thunbergi 'Rosy Rocket'	#5	
18	csf	Citrus Swizzle Forsythia	Forsythia viridissima 'McKCitrine'	#5	
9	abh	Annabelle Hydrangea	Hydrangea arborescens	#5	
11	qfh	Quick Fire Hydrangea	Hydrangea paniculata 'Bulk'	#5	
13	ldn	Little Devil Ninebark	Physocarpus opulifoliius 'Donna May'	#5	
23	ptt	Paint The Town Shrub Rose	Rosa 'BAltown'	#5	
18	tbs	Tor Birchleaf Spirea	Spirea betulifolia 'Tor'	#5	
18	fcs	Flowering Choice Spirea	Spirea x bumalda 'Flowering Choice'	#5	
6	jfv	Juddi Fragrant Viburnum	Viburnum x Juddii	#5	
10	mmw	My Monet Weigela	Weigela florida 'Verwig'	#5	

Bio Plants

Quantity	Common Name	Scientific Name	Planting Size
4 Flats	Switch Grass	Panicum virgatum	32 per flat
2 Flats	New England Aster	Aster novae-angliae	32 per flat
2 Flats	Sweet Black Eyed Susan	Rudbeckia subtomentosa	32 per flat
1 Flat	Wild Beramot	Monarda fistulosa	32 per flat
1 Flat	Stiff Goldenrod	Solidago rigida	32 per flat

PRELIMINARY
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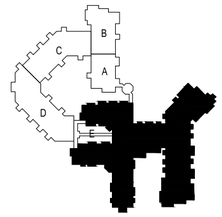

LANDSCAPING DETAILS

Issued for Review
02/16/2018

Commission No: 11067-002.020
Drawn by: KK
Checked by: DRC

SHEET

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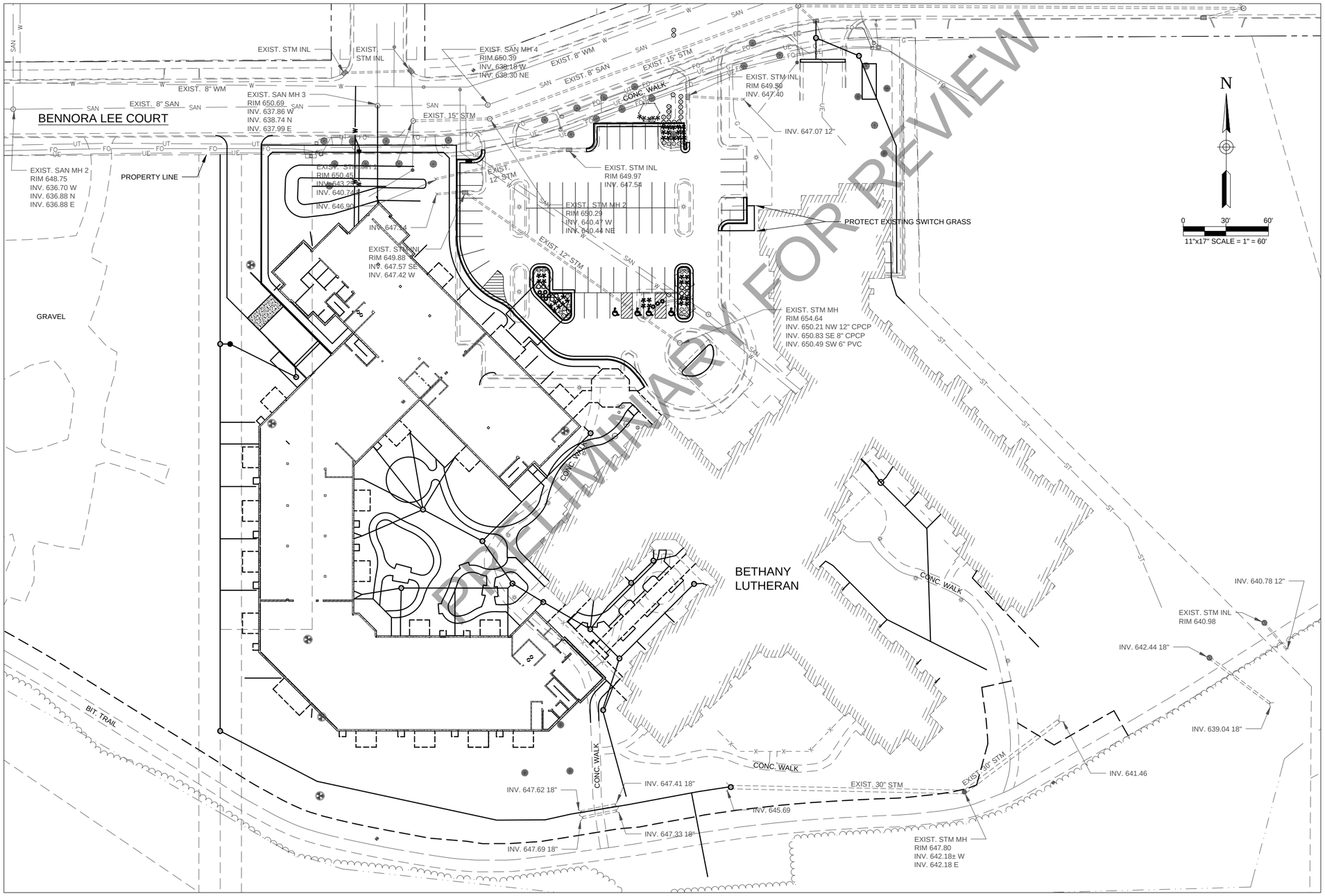

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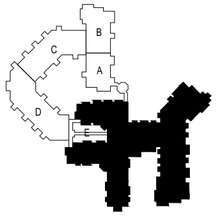

LANDSCAPING
IRRIGATION
PLAN

Issuing Purposes:	
	02/16/2018

Project No:	11067-002.020
Drawn by:	KK
Checked by:	DRC

SHEET

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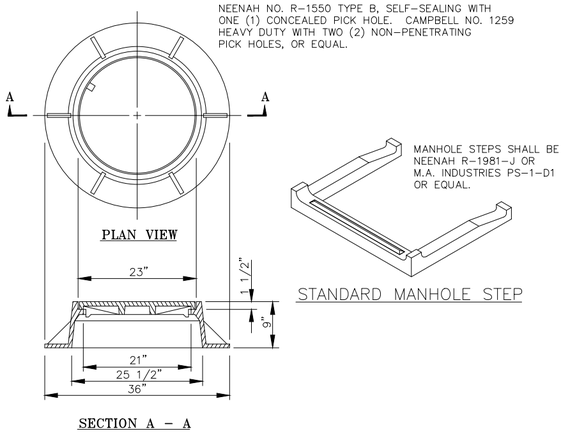

STANDARD FRAME, COVER, & STEP

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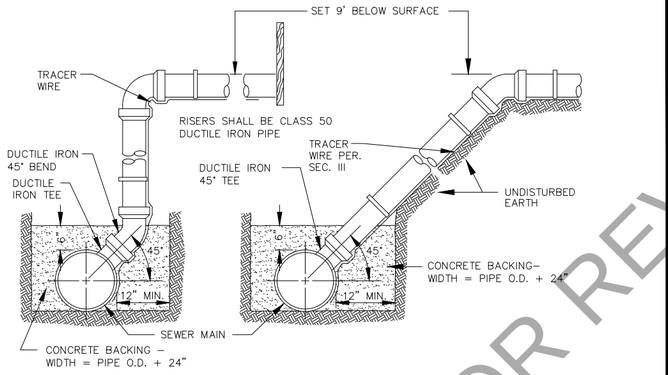

DETAILS OF RISERS FOR HOUSE CONNECTION

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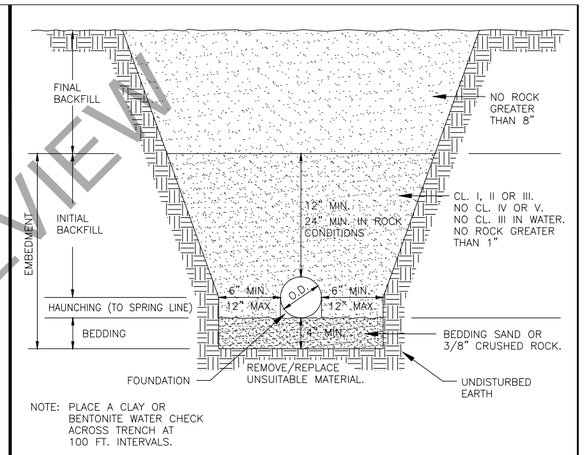

STANDARD PIPE BEDDING DETAIL

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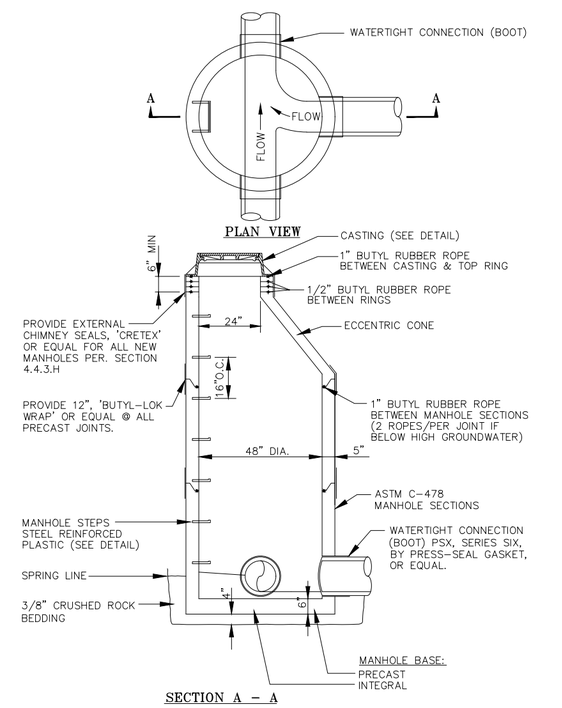

DETAIL OF STANDARD SANITARY MANHOLE

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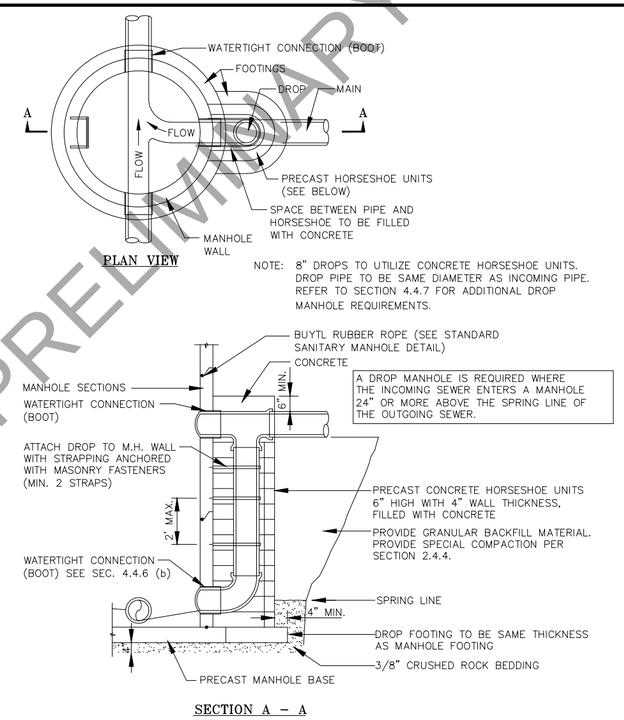

DETAIL OF DROP MANHOLE

NO SCALE

SOIL CLASSIFICATION CHART

COARSE-GRAINED SOILS			
		Gravels	
GW	Well-graded gravel	More than 50% of coarse fraction retained on #4 sieve	Clean gravels < 5% fines
GP	Poorly graded gravel		
GM	Silty gravel		Gravel with fines >12% fines
GC	Clayey gravel		
		Sands	
SW	Well-graded sand	50% or more of coarse fraction passes #4 sieve	Clean sands <5% fines
SP	Poorly graded sand		
SM	Silty sand		Sand with fines >12% fines
SC	Clayey sand		
FINE-GRAINED SOILS			
		Silts and Clays	
CL	Lean clay	Liquid limit <50	Inorganic
ML	Silt		
OL	Organic clay/silt		Organic
CH	Fat clay	Liquid limit >50	Inorganic
MH	Elastic silt		
OH	Organic clay/silt		Organic
PT	Peat		Organic

Soil Classes			
Crushed rock			Class I
Clean coarse grained	SW, SP, GW, GP	<12% passing #200	Class II
Coarse grained with fines	GM, GC, SM, SC	>12% passing #200	Class III
Silty Clay	CL, ML	>30% retained #200	Class III
Fine grained	CL, ML	<30% retained #200	Class IV
	MH, CH, CL, CH, PT		Class V

Use of Soil Classes for Foundation, Embedment and Backfill	
Foundation	4" minimum in rock excavation
Foundation - no water	Class I, II or III or subcut and use Class I or II
Foundation - with water	Class I or II or subcut and use Class I or II
Bedding	4" minimum Bedding Sand (3.24.2) or 3/8" Crushed Rock (3.24.1)
Embedment - no water	Class I, II or III or replace with Class I, II or III
Embedment - with water	Class I or II or replace with Class I or II
Foundation and embedment	No rock > 1", No Class IV or V
Final Backfill	No rock > 8"
Embedment includes Bedding, Haunching and Initial Backfill	

Compaction for Foundation, Embedment and Backfill	
Foundation	90% Modified Proctor
Bedding	90% Modified Proctor
Haunching	90% Modified Proctor
Initial Backfill	90% Modified Proctor
Final Backfill	90% - 95% Modified Proctor

SOIL CLASSIFICATION CHARTS

PRELIMINARY FOR REVIEW

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SOUTH ADDITION
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LA CROSSE, WI

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Davy Engineering Co.
115 6th Street S.
La Crosse, WI 54601
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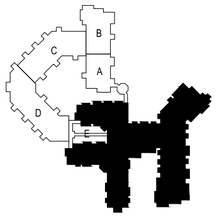
www.davyengineering.com/



SANITARY SEWER DETAILS

Issued for Review: 02/16/2018

Commission No: 11067-002.020
Drawn by: KK
Checked by: DRC

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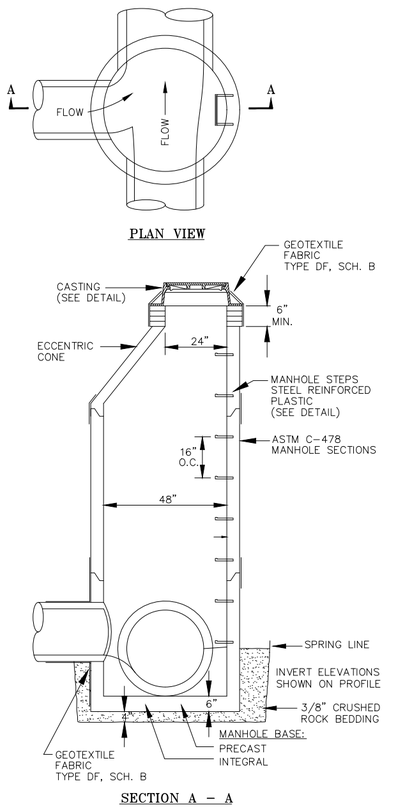

DETAIL OF STANDARD STORM MANHOLE

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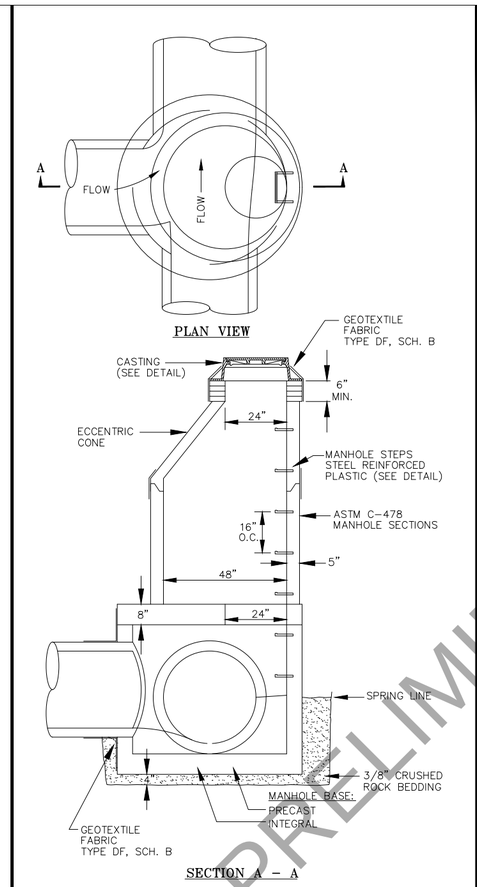

DETAIL OF STANDARD STORM MANHOLE FOR PIPES 36" OR LARGER

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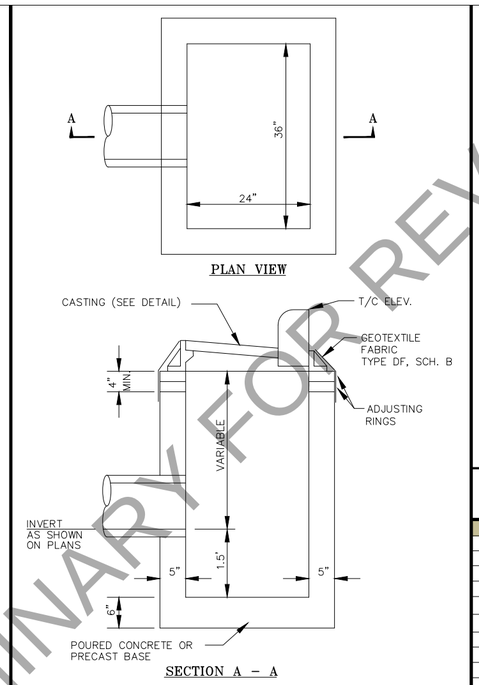

PRECAST CONCRETE CATCH BASIN W/ SUMP

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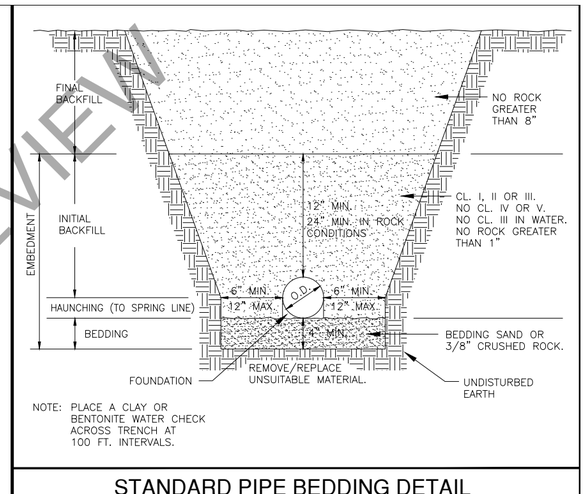


STANDARD PIPE BEDDING DETAIL

NO SCALE

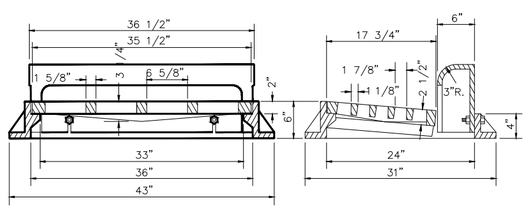
SOIL CLASSIFICATION CHART			
COARSE-GRAINED SOILS			
		Gravels	
GW	Well-graded gravel	More than 50% of coarse fraction retained on #4 sieve	Clean gravels < 5% fines
GP	Poorly graded gravel		
GM	Silty gravel		Gravel with fines >12% fines
GC	Clayey gravel		
		Sands	
SW	Well-graded sand	50% or more of coarse fraction passes #4 sieve	Clean sands <5% fines
SP	Poorly graded sand		
SM	Silty sand		Sand with fines >12% fines
SC	Clayey sand		
FINE-GRAINED SOILS			
		Silts and Clays	
CL	Lean clay	Liquid limit <50	Inorganic
ML	Silt		
OL	Organic clay/silt		Organic
CH	Fat clay	Liquid limit >50	Inorganic
MH	Elastic silt		
OH	Organic clay/silt		Organic
PT	Peat		Organic

Soil Classes			
Crushed rock			Class I
Clean coarse grained	SW, SP, GW, GP	<12% passing #200	Class II
Coarse grained with fines	GM, GC, SM, SC	>12% passing #200	Class III
Silty Clay	CL, ML	>30% retained #200	Class III
Fine grained	CL, ML	<30% retained #200	Class IV
	MH, CH, CL, CH, PT		Class V

Use of Soil Classes for Foundation, Embedment and Backfill	
Foundation	4" minimum in rock excavation
Foundation - no water	Class I, II or III or subcut and use Class I or II
Foundation - with water	Class I or II or subcut and use Class I or II
Bedding	4" minimum Bedding Sand (3.24.2) or 3/8" Crushed Rock (3.24.1)
Embedment - no water	Class I, II or III or replace with Class I, II or III
Embedment - with water	Class I or II or replace with Class I or II
Foundation and embedment	No rock > 1", No Class IV or V
Final Backfill	No rock > 8"
Embedment includes Bedding, Haunching and Initial Backfill	

Compaction for Foundation, Embedment and Backfill	
Foundation	90% Modified Proctor
Bedding	90% Modified Proctor
Haunching	90% Modified Proctor
Initial Backfill	90% Modified Proctor
Final Backfill	90% - 95% Modified Proctor

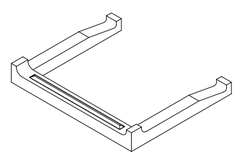
SOIL CLASSIFICATION CHARTS



NEENAH R-3246 OR NEENAH R-3067 OR EQUAL.

DETAIL OF CATCH BASIN CASTING

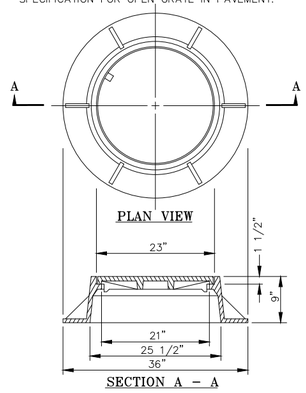
NO SCALE



MANHOLE STEPS SHALL BE NEENAH R-1981-J OR M.A. INDUSTRIES PS-1-D1 OR EQUAL.

STANDARD MANHOLE STEP

NO SCALE



NEENAH NO. R-1550 TYPE B, SELF-SEALING WITH ONE (1) CONCEALED PICK HOLE, CAMPBELL NO. 1259 HEAVY DUTY WITH TWO (2) NON-PENETRATING PICK HOLES, OR EQUAL. GRATED LIDS SHALL BE NEENAH R-2050-C, EJIW 1058M1 OR EQUAL. SEE SPECIFICATION FOR OPEN GRATE IN PAVEMENT.

STANDARD FRAME & COVER

NO SCALE

PRELIMINARY FOR REVIEW

NOT FOR CONSTRUCTION

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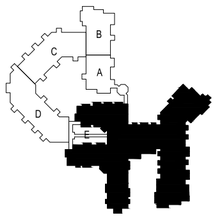

STORM SEWER DETAILS

Issues and Revisions:
02/16/2018

Computer No: 11067-002.020
Drawn by: KK
Checked by: DRC

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C7.1

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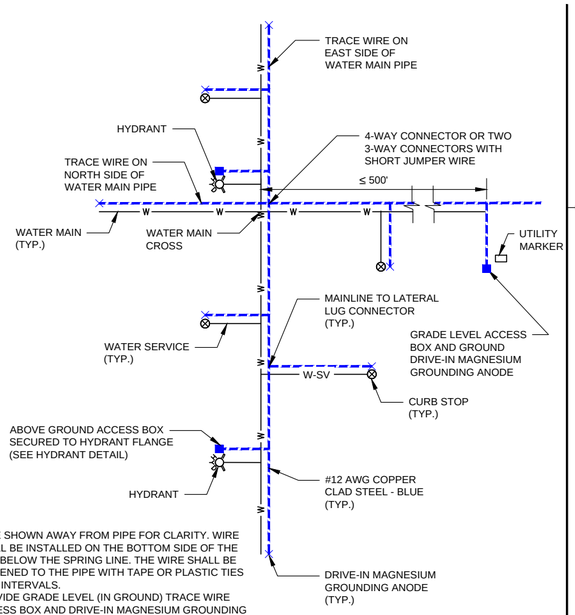
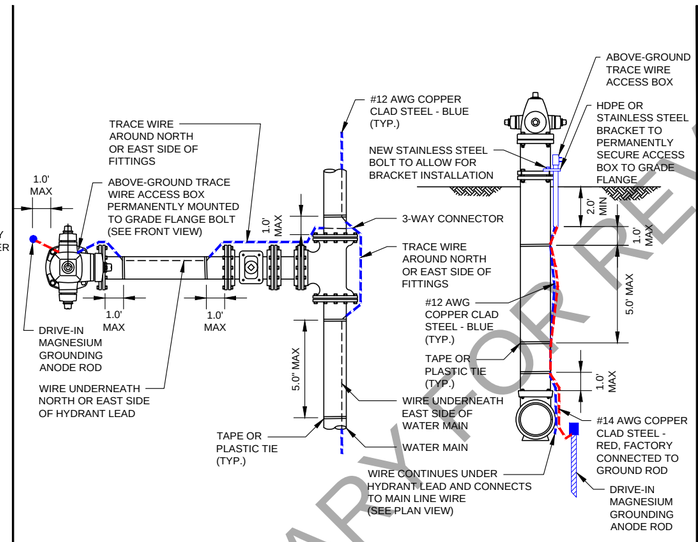


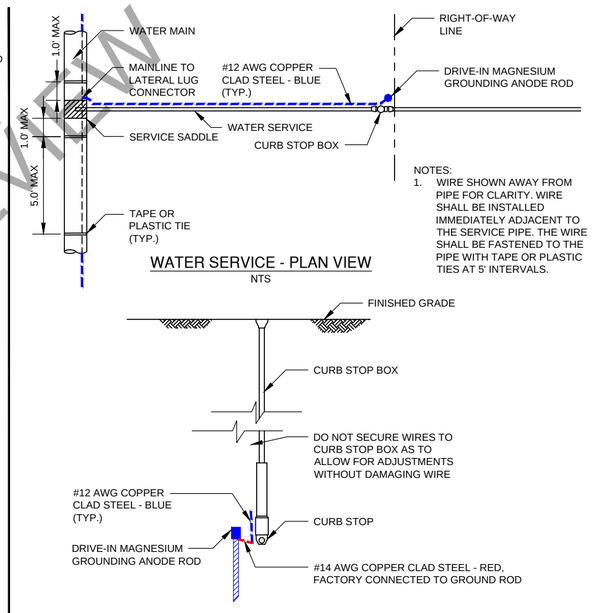
NOTES:
1. WIRE SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED ON THE BOTTOM SIDE OF THE PIPE BELOW THE SPRING LINE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5' INTERVALS.
2. PROVIDE GRADE LEVEL (IN GROUND) TRACE WIRE ACCESS BOX AND DRIVE-IN MAGNESIUM GROUNDING ANODE AT EACH HYDRANT OR AT DISTANCES OF ≤ 500 FT. FOR HYDRANT SPACING OVER 500', INSTALL ACCESS BOXES AS DIRECTED BY THE ENGINEER AT THE EDGE OF THE RIGHT OF WAY AND MARK WITH A MINIMUM 48" MARKER POST COLOR CODED FOR THE UTILITY BEING MARKED.

TYPICAL TRACER WIRE PLAN (WATER)
NTS



HYDRANT - PLAN VIEW
NTS

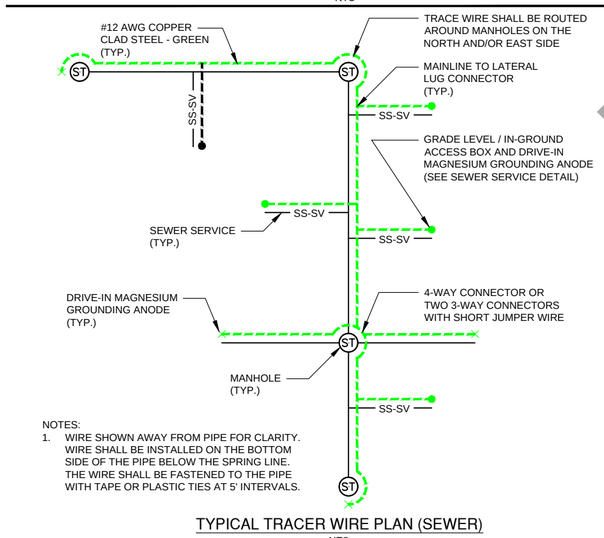
HYDRANT - SECTION VIEW
NTS



NOTES:
1. WIRE SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED IMMEDIATELY ADJACENT TO THE SERVICE PIPE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5' INTERVALS.

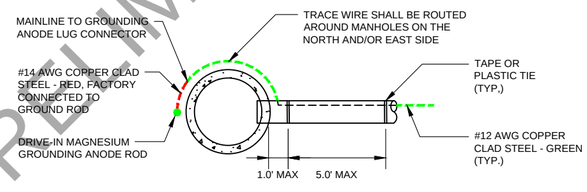
WATER SERVICE - PLAN VIEW
NTS

WATER SERVICE - SECTION VIEW
NTS

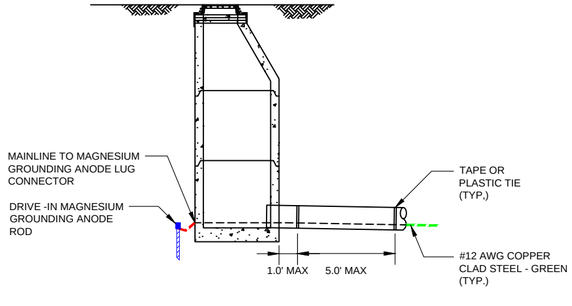


NOTES:
1. WIRE SHOWN AWAY FROM PIPE FOR CLARITY. WIRE SHALL BE INSTALLED ON THE BOTTOM SIDE OF THE PIPE BELOW THE SPRING LINE. THE WIRE SHALL BE FASTENED TO THE PIPE WITH TAPE OR PLASTIC TIES AT 5' INTERVALS.

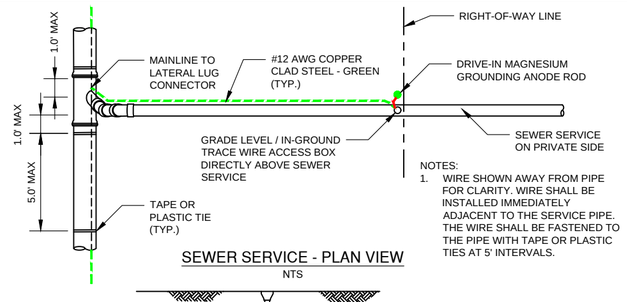
TYPICAL TRACER WIRE PLAN (SEWER)
NTS



SEWER MANHOLE - PLAN VIEW
NTS



SEWER MANHOLE - SECTION VIEW
NTS



NOTES:
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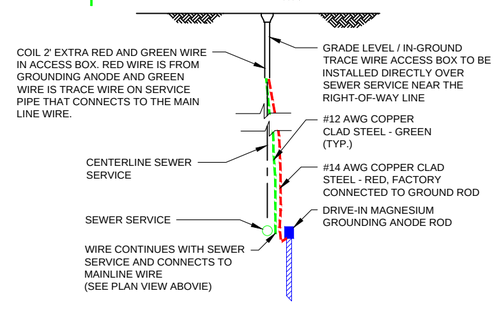
SEWER SERVICE - PLAN VIEW
NTS



SEWER SERVICE - SECTION VIEW
NTS

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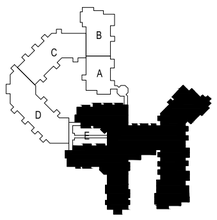

TRACER WIRE DETAILS

Issues and Revisions
02/16/2018

Commission No.	11067-002.020
Drawn by	KK
Checked by	DRC

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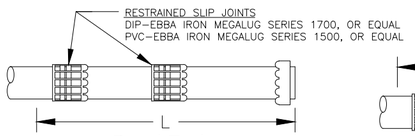
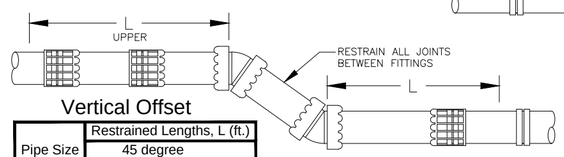
H:\AutoCad Drawings\2017\P\Misc. P\Pope Architects Eagle Crest 2\CAD Drawings\Civil\DELIVERABLES\11067-002 TRACER WIRE DETAILS.dwg, 2/15/2018 3:28:36 PM



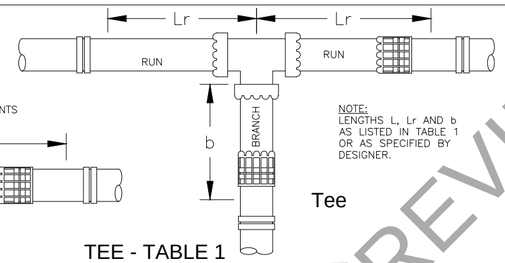
Dead End

Pipe Size	Restrained Lengths, L (ft.)	
	PVC	DIP
4	23	29
6	33	41
8	43	53
10	52	64
12	62	76



Vertical Offset

Pipe Size	Restrained Lengths, L (ft.)	
	45 degree	
	PVC	DIP
4	10	12
6	14	17
8	18	22
10	22	27
12	26	32

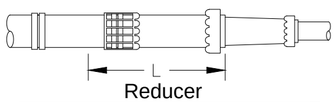


NOTE:
LENGTHS L, Lr AND b AS LISTED IN TABLE 1 OR AS SPECIFIED BY DESIGNER.

Tee

TEE - TABLE 1

Pipe Size		Restrained Lengths			
		PVC		DIP	
Run	Branch	Lr (ft.)	b (ft.)	Lr (ft.)	b (ft.)
4	4	4	1	4	1
6	4	4	1	4	1
6	6	5	3	5	4
8	4	4	1	4	1
8	6	4	2	4	2
8	8	6	7	6	9
10	4	4	1	4	1
10	6	4	1	4	1
10	8	5	6	5	7
10	10	7	10	7	12
12	6	4	1	4	1
12	8	5	1	5	1
12	10	7	1	7	2
12	12	9	7	9	9

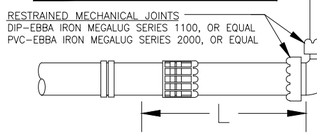


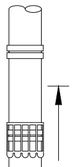
Reducer

Pipe Size		Restrained Lengths, L (ft.)	
Large	Small	PVC	DIP
6	4	17	21
8	4	31	38
8	6	18	23
10	6	32	40
10	8	18	22
12	8	33	41
12	10	18	23

Horizontal Bend

Pipe Size	Restrained Lengths, L (ft.)	
	90 degree	
	PVC	DIP
6	11	12
8	15	16
10	18	19
12	21	22





NOTES ABOUT TABLES:

THESE TABLES ARE BASED UPON PRODUCT SOFTWARE DEVELOPED BY EBBA IRON, INC. AND ARE CALCULATED BASED ON THE FOLLOWING ASSUMPTIONS:

1. THE SOIL TYPES ARE SILTY LOAM (ML) OR BETTER. INORGANIC SILTS, FINE SANDS, CLAYS (NATIVE SOILS).
2. SAFETY FACTOR, 1.5:1
3. TRENCH TYPE 4.
4. DEPTH OF BURY, 7 FEET OF COVER.
5. INTERNAL PRESSURE, 150 PSI TEST PRESSURE.

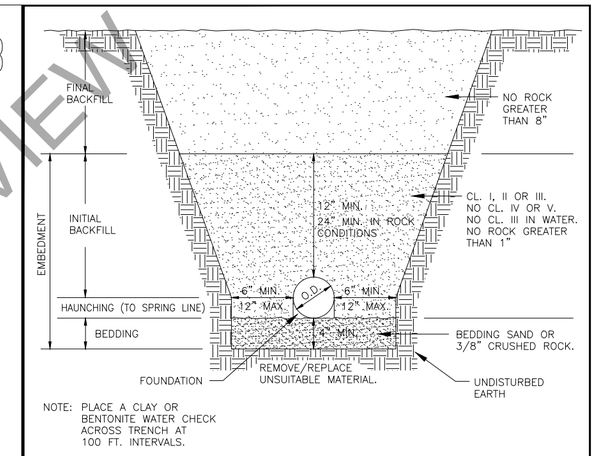
FOR OTHER PIPE SIZES OR CONDITIONS, CONTACT THE ENGINEER FOR RESTRAINED LENGTHS REQUIRED.

CONSTRUCTION NOTES:

1. IF LESS THAN FULL LENGTH PIPE ADJACENT TO FITTING, RESTRAIN ALL JOINTS.
2. ALL FITTINGS SHALL BE RODDED OR CONNECTED TO THE PIPE WITH AN APPROVED JOINT RESTRAINT. RODS SHALL BE STAINLESS STEEL AND A MINIMUM OF 3/4" IN DIAMETER.
3. ALL JOINT RESTRAINTS, DIP PIPE & FITTINGS SHALL BE WRAPPED WITH 8 MIL POLYETHYLENE.

TABLE 1 Minimum Restrained Lengths For Fittings (L)

NO SCALE



STANDARD PIPE BEDDING DETAIL

NO SCALE

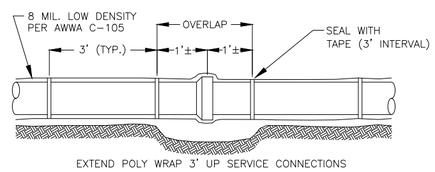
SOIL CLASSIFICATION CHART			
COARSE-GRAINED SOILS			
		Gravels	
GW	Well-graded gravel	More than 50% of coarse fraction retained on #4 sieve	Clean gravels < 5% fines
GP	Poorly graded gravel		
GM	Silty gravel		Gravel with fines >12% fines
GC	Clayey gravel		
		Sands	
SW	Well-graded sand	50% or more of coarse fraction passes #4 sieve	Clean sands <5% fines
SP	Poorly graded sand		
SM	Silty sand		Sand with fines >12% fines
SC	Clayey sand		
FINE-GRAINED SOILS			
		Silts and Clays	
CL	Lean clay	Liquid limit <50	Inorganic
ML	Silt		
OL	Organic clay/silt		Organic
CH	Fat clay	Liquid limit >50	Inorganic
MH	Elastic silt		
OH	Organic clay/silt		Organic
PT	Peat		Organic

Soil Classes			
Crushed rock			Class I
Clean coarse grained	SW, SP, GW, GP	<12% passing #200	Class II
Coarse grained with fines	GM, GC, SM, SC	>12% passing #200	Class III
Silty Clay	CL, ML	>30% retained #200	Class III
Fine grained	CL, ML	<30% retained #200	Class IV
	MH, CH, CL, CH, PT		Class V

Use of Soil Classes for Foundation, Embedment and Backfill	
Foundation	4" minimum in rock excavation
Foundation - no water	Class I, II or III or subcut and use Class I or II
Foundation - with water	Class I or II or subcut and use Class I or II
Bedding	4" minimum Bedding Sand (3.24.2) or 3/8" Crushed Rock (3.24.1)
Embedment - no water	Class I, II or III or replace with Class I, II or III
Embedment - with water	Class I or II or replace with Class I or II
Foundation and embedment	No rock > 1", No Class IV or V
Final Backfill	No rock > 8"
Embedment includes Bedding, Haunching and Initial Backfill	

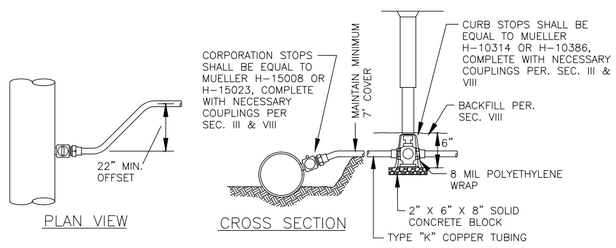
Compaction for Foundation, Embedment and Backfill	
Foundation	90% Modified Proctor
Bedding	90% Modified Proctor
Haunching	90% Modified Proctor
Initial Backfill	90% Modified Proctor
Final Backfill	90% - 95% Modified Proctor

SOIL CLASSIFICATION CHARTS



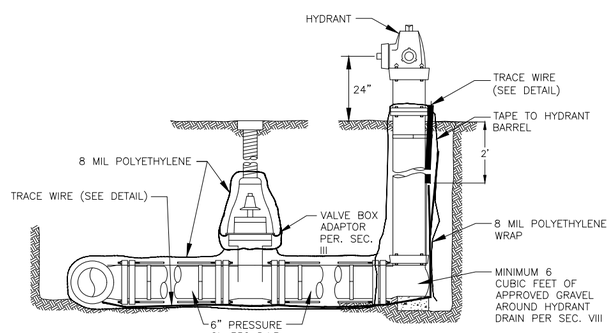
POLYETHYLENE PIPE WRAP FOR DIP

NO SCALE



COPPER WATER SERVICE CONNECTION

NO SCALE



NOTES:
1. SECURE ALL JOINTS WITH RETAINER GLANDS PER SEC. III & VIII
2. TRACER WIRE SHALL SURFACE AT ALL HYDRANTS.

HYDRANT TO WATERMAIN CONNECTION W/TRACER WIRE

NO SCALE

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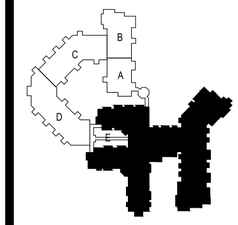

WATERMAIN DETAILS

Issued for Permits	
	02/16/2018

Project No:	11067-002.020
Drawn by:	KK
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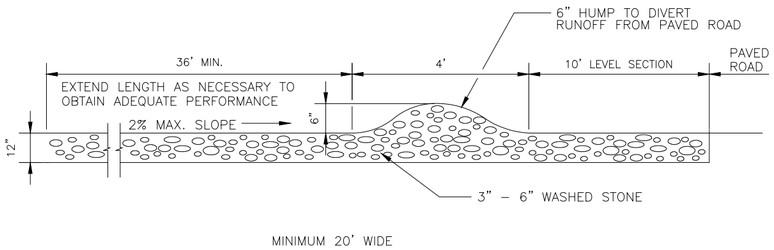
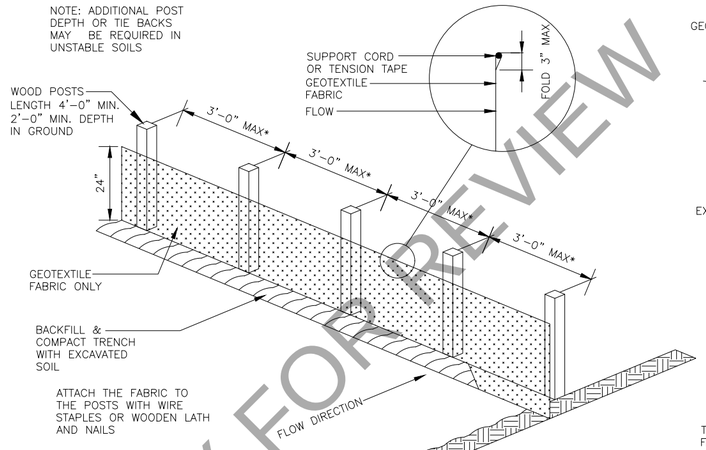
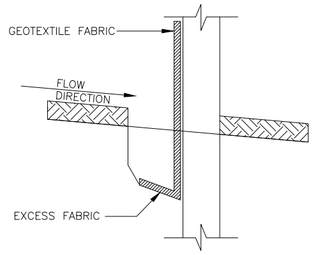


TEMPORARY GRAVEL CONSTRUCTION ENTRANCE DETAIL (TRACKING PAD)



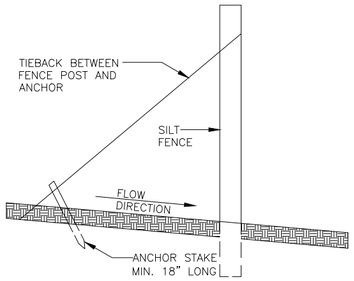
*NOTE: 8'–0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.

SILT FENCE
NTS

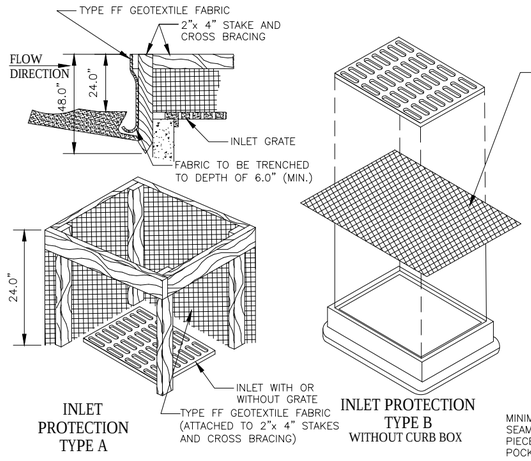


TRENCH DETAIL
NTS

4" WIDE x 6" DEEP TRENCH – UPSLOPE ALONG THE LINE OF POSTS. BACKFILL W/ SOIL ON TOP OF FENCING AND GEOTEXTILE FABRIC

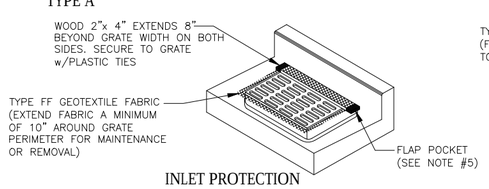


SILT FENCE TIE BACK
(WHEN REQUIRED BY ENGINEER)

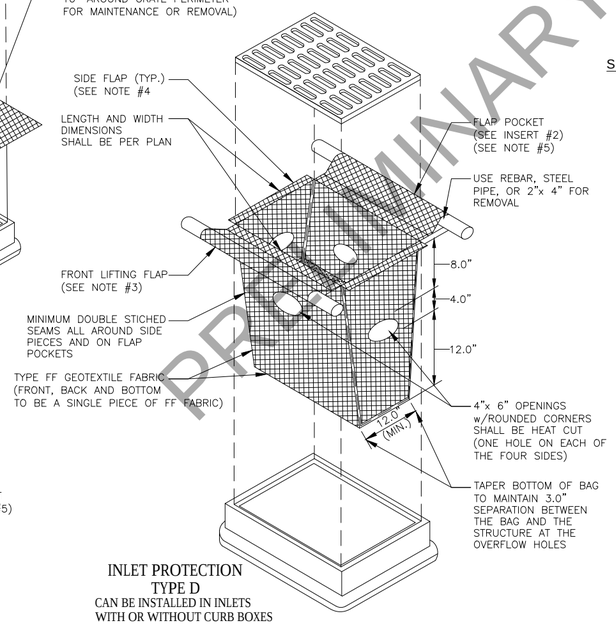


INLET PROTECTION TYPE A

INLET PROTECTION TYPE B
WITHOUT CURB BOX



INLET PROTECTION TYPE C
WITH CURB BOX



INLET PROTECTION TYPE D
CAN BE INSTALLED IN INLETS WITH OR WITHOUT CURB BOXES

NOTES:

1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF OUTSIDE OF FILTER BAG. FRONT, BACK AND BOTTOM OF FILTER BAG BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STICHES.
5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" x 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.
6. ALL FABRICS USED AS PART OF TYPE A, B, C, D, D–M AND D–HR INLET PROTECTION DEVICES MUST MEET WisDOT SPECIFICATIONS FOR THE SELECTED FABRIC.

MAINTENANCE NOTES:

1. WHEN REMOVING OR MAINTAINING INLET PROTECTION,
2. CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED
3. IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE.
4. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.

INLET PROTECTION TYPES A, B, C AND D

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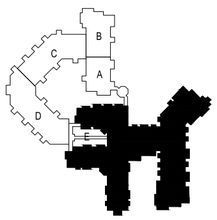

EROSION CONTROL DETAILS

Issued for Review
02/16/2018

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Checked by: DRC

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C7.4

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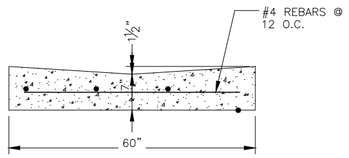
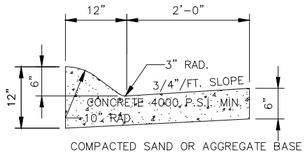


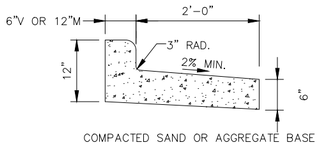
5' WIDE, 7" GUTTER PANs



THE BOTTOM OF THE CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

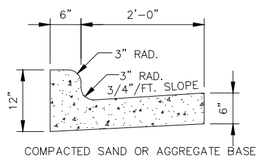
36" MOUNTABLE CURB & GUTTER SECTION

SCALE: NTS



REJECT GUTTER SECTION

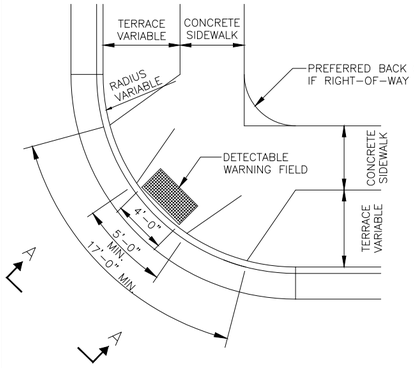
SCALE: NTS



THE BOTTOM OF THE CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

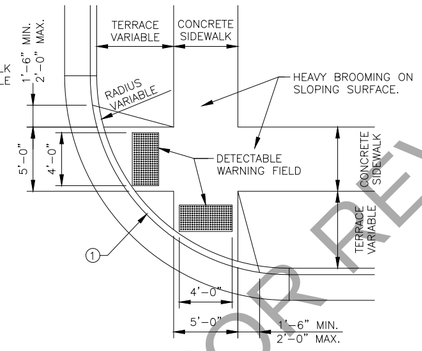
30" CONCRETE CURB & GUTTER (STANDARD SLOPE) WIS DOT TYPE L

SCALE: NTS



TYPE 1 RAMP

NO SCALE

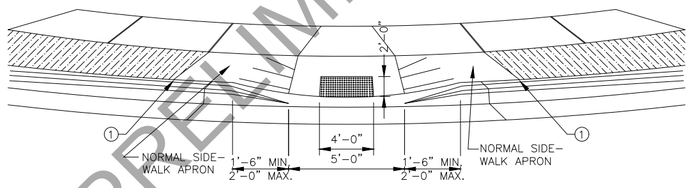


TYPE 2 RAMP

NO SCALE

NOTE: INSTALL EXPANSION AND CONTRACTION JOINTS AS NEEDED. RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER, WHEN NECESSARY. THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP. SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

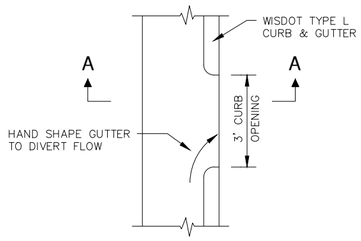
① WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 12H:1V SLOPE, OR FLATTER, ON THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 12H:1V SLOPE, OR FLATTER, ON RAMP. 2" MINIMUM CURB HEIGHT.



VIEW A-A

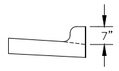
HANDICAP RAMP

SCALE: NTS



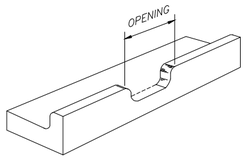
PLAN VIEW

NO SCALE



SECTION A-A

NO SCALE

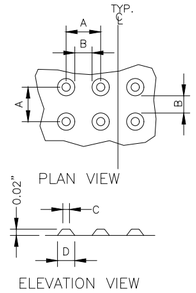


CURB OPENING DETAIL

SCALE: NTS

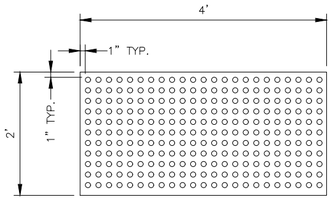
	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION



TRUNCATED DOMES

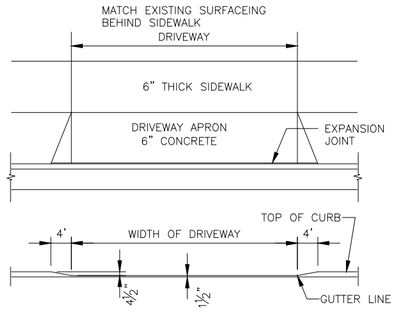
DETECTABLE WARNING PATTERN DETAIL



PLAN VIEW

DETECTABLE WARNING FIELD (TYPICAL)

SCALE : NTS



TYPICAL DRIVEWAY DETAILS

SCALE; NTS

PRELIMINARY NOT FOR REVIEW

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POPE ARCHITECTS

POPE ASSOCIATES, INC.
1295 BANDANA BLVD N, SUITE 200
ST. PAUL, MN 55108-2735
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(608) 782-3130
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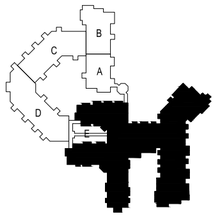

PAVEMENT DETAILS

Issue Log Revisions	
	02/16/2018

Expansion No:	11067-002.020
Drawn by:	KK
Checked by:	DRC

SHEET

C7.5

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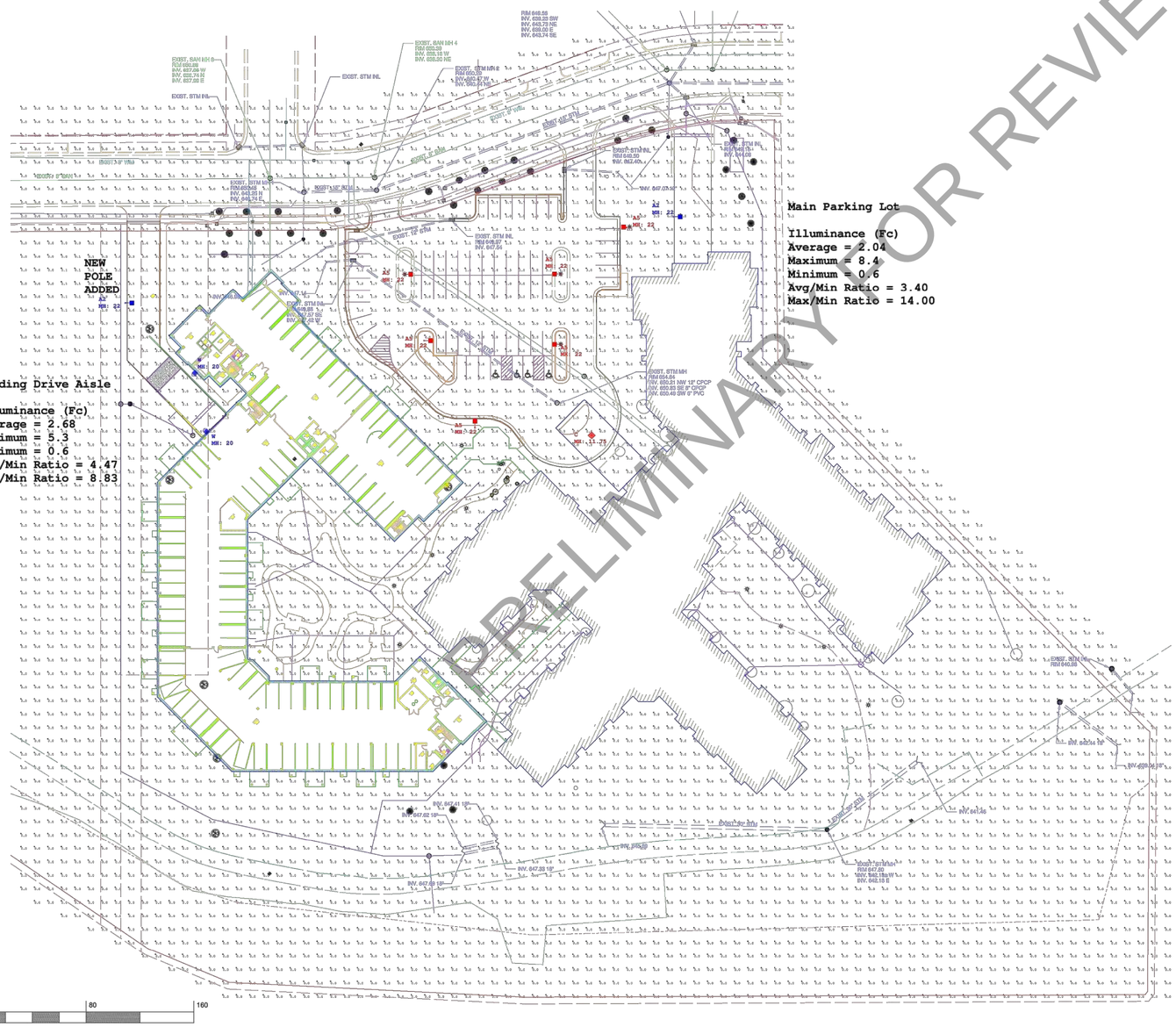

Luminaire Schedule

Symbol	Qty	Label	Arrangement	Lumens/Lamp	LLF	Total Watts	Description
	6	A5	SINGLE	16277	1.030	780	OSQ-A-NM-5ME-K-57K-UL-BZ w/OSQ-DABZ
	2	W	SINGLE	4109	1.000	84	XSPW-A-0-S-M-C-U-Z (42W, 57K)
	2	A2	SINGLE	17291	0.950	260	OSQ-A-NM-2ME-K-57K-UL-BZ w/OSQ-DABZ
	1	C	SINGLE	4520	1.000	31	CPY250-B-DM-F-C-UL-WH-57K

Footcandles calculated using predicted lumen values after 50K hours of operation

Label	Avg	Max	Min	Avg/Min	Max/Min
All Calc Points	0.33	8.4	0.0	N.A.	N.A.
Loading Drive Aisle	2.68	5.3	0.6	4.47	8.83
Main Parking Lot	2.04	8.4	0.6	3.40	14.00

Fixture Mounting Height:
Pole Mounted: 22' AFG (20' Pole + 2.0' Base)

Proposed Poles Meets 140MPH Sustained Winds.

Additional Required Equipment:
(1) - PS4S20C1BZ - (20' x 4" x 0.125", Steel Square Pole, Side Arm Mount)
(8) - OSQ-DABZ - (Direct Arm Mount)

Customer to verify Color, Mounting, Fixture Location and Voltage prior to ordering.

"DLC V4 is in effect as of April 1, 2017, which impacts the rebate eligibility of many LED products. If you require DLC-qualified fixtures, please reference https://www.designlights.org/search/ for updated qualified product listings. Email rebates@cree.com<mailto:rebates@cree.com> for assistance."

Customer responsible to verify ordering information/ catalogue number prior to placing order.

CREE™
1200 92nd Street - Sturtevant, WI 53177
www.cree.com - (800) 236-6800

Project Name: East Crest South - 622 Bannora Lee Ct., La Crosse, WI — SR-28622
Date:2/14/2018 — Scale: 1"=40' — Footcandles calculated at grade
Filename: 180214EC1CJW.AGI — Layout by: Collin Witherow

Illumination results shown on this lighting design are based on project parameters provided to Cree, Inc. used in conjunction with luminaire test procedures conducted under laboratory conditions. Actual project conditions differing from these design parameters may affect field results. The customer is responsible for verifying dimensional accuracy along with compliance with any applicable electrical, lighting, or energy code.

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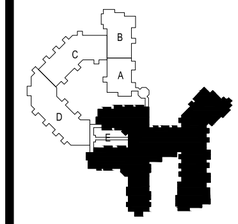

LIGHTING PLAN

Issuing Papers:
02/16/2018

Project No: 11067-002.020
Drawn by: XX
Checked by: DRC

SHEET
L1.0