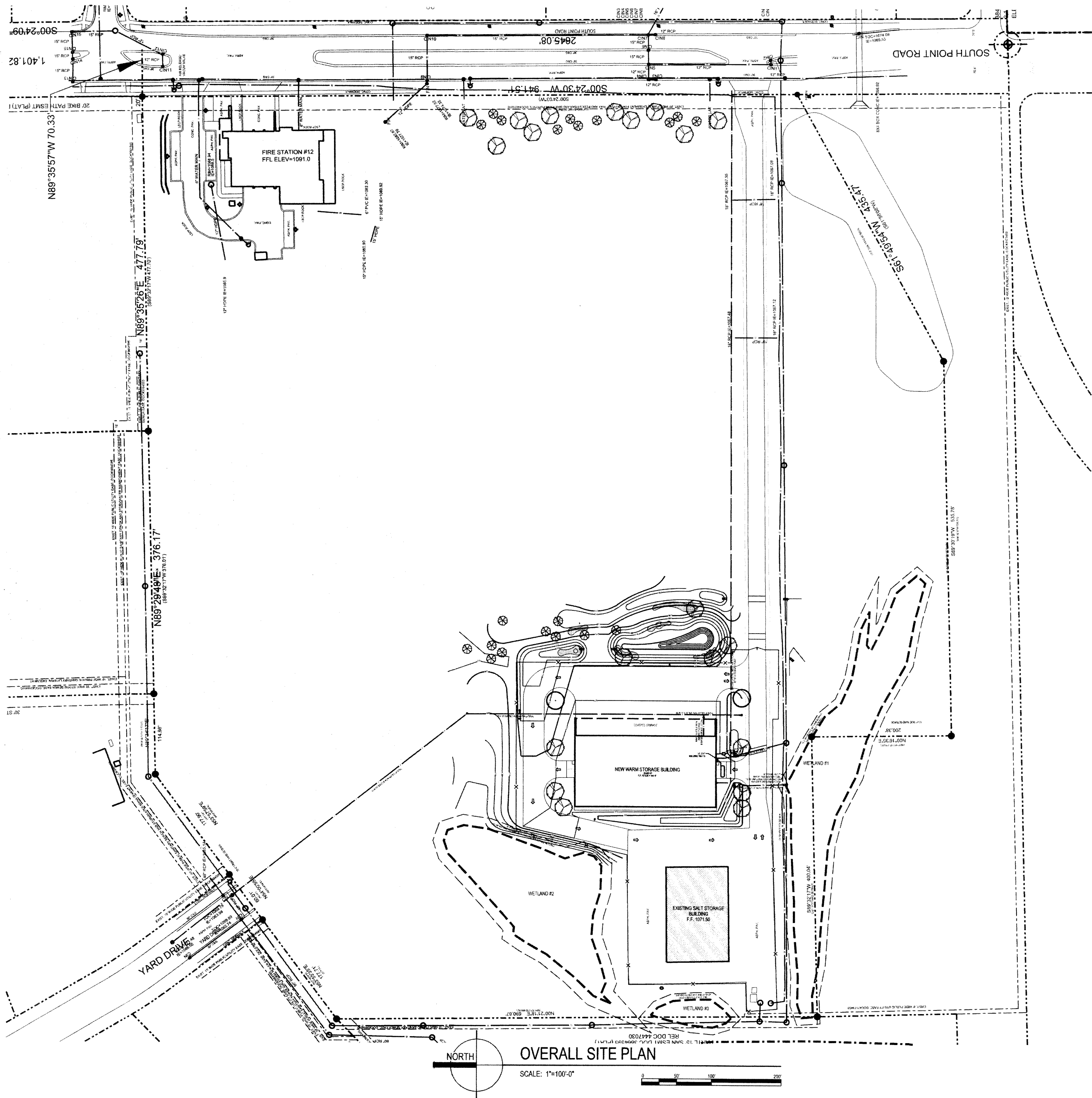


SOUTH POINT ROAD PUBLIC WORKS STORAGE BUILDING CITY OF MADISON MADISON, WISCONSIN

Angus Young Architecture
Engineering
Interior Design
Balance in Creativity
555 South River Street, Janesville, WI 53548-4783
Ph: 608.756.2326 Fax: 608.756.0464
www.angusyoung.com



CITY OF MADISON PROJECT NUMBER: 53W1165
CONTRACT NUMBER: 6962



REGULATORY DATA

PROJECT ADDRESS

424 SOUTH POINT ROAD
MADISON, WISCONSIN

BUILDING CODE

2009 IBC

USE AND OCCUPANCY CLASSIFICATION

S-2 - LOW HAZARD STORAGE

GENERAL BUILDING HEIGHT AND AREA

MAXIMUM AREA = 26,000 S.F. (104,000 S.F. W/ SPRINKLER INCREASE)
MAXIMUM STORIES = 3 (1 STORY W/ 300% SPRINKLER INCREASE)
MAXIMUM HEIGHT = 56 FEET

TYPE OF CONSTRUCTION

2B - PRE-ENGINEERED METAL BUILDING
FULLY SPRINKLED - NFPA 13

PROJECT DIRECTORY

ANGUS YOUNG AND ASSOCIATES

BRADLEY WIERGINZ, PROJECT MANAGER
555 SOUTH RIVER STREET
JANESVILLE, WI 53548
1-608-756-2326
bradw@angusyoung.com

CITY OF MADISON

RANDY WIESNER, PROJECT MANAGER
MADISON, WI
1-608-267-8679
rwiesner@cityofmadison.com

CITY APPROVAL

PUBLIC IMPROVEMENT PROJECT APPROVED

RES-12-00730, ID: FILE ID 27516

SEPTEMBER 18, 2012

BY THE COMMON COUNCIL OF
MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY

[Signature]

CITY ENGINEER

6/20/13
DATE

24	20	16	12	08	04
23	19	15	11	07	03
22	18	14	10	06	02
21	17	13	09	05	01

TITLE BLOCK

DETAILS IN THIS SET ARE PLACED
ON THE SHEETS AND NUMBERED WITH
RESPECT TO THE GRID ABOVE.
CONSEQUENTLY, DETAILS ON A GIVEN
SHEET MAY OR MAY NOT BE
NUMBERED CONSECUTIVELY.



SHEET INDEX

GENERAL

G001 COVER SHEET & OVERALL SITE PLAN

CIVIL

C101 OVERALL SITE LAYOUT AND LANDSCAPE PLAN
C200 SITE DEMOLITION PLAN
C201 SITE LAYOUT AND UTILITY PLAN
C202 SITE GRADING PLAN
C203 EROSION CONTROL PLAN
C601 SITE PHOTOMETRIC PLAN
C801 SITE DETAILS

ARCHITECTURAL

A101 FLOOR PLAN
A201 MEZZANINE/ CLEARSTORY PLAN
A202 ROOF PLAN
A301 SCHEDULES AND DETAILS
A401 EXTERIOR ELEVATIONS
A501 BUILDING SECTIONS
A502 BUILDING SECTION AND DETAILS
A601 WALL SECTIONS AND DETAILS

STRUCTURAL

S101 FOUNDATION AND SLAB PLAN
S200 MEZZANINE FRAMING PLAN & DETAILS - BASE BID
S201 ROOF FRAMING PLAN
S202 ALTERNATE MEZZANINE FRAMING PLAN & DETAILS
S301 STRUCTURAL NOTES AND SCHEDULES
S801 STRUCTURAL DETAILS

PLUMBING

P100 PLUMBING UNDERFLOOR PLAN
P101 MAIN LEVEL PLUMBING FLOOR PLAN
P201 PLUMBING ISOMETRICS
P301 ABBREVIATIONS, LEGENDS, SCHEDULES, & WATER CALC.

MECHANICAL

M100 HVAC FLOOR PLAN
M301 SCHEDULES AND DETAILS

ELECTRICAL

E101 ELECTRICAL PLAN
E102 PARTIAL ELECTRICAL PLANS
E301 ELECTRICAL SCHEDULES
E302 ELECTRICAL SCHEDULES AND ONLINE DIAGRAM

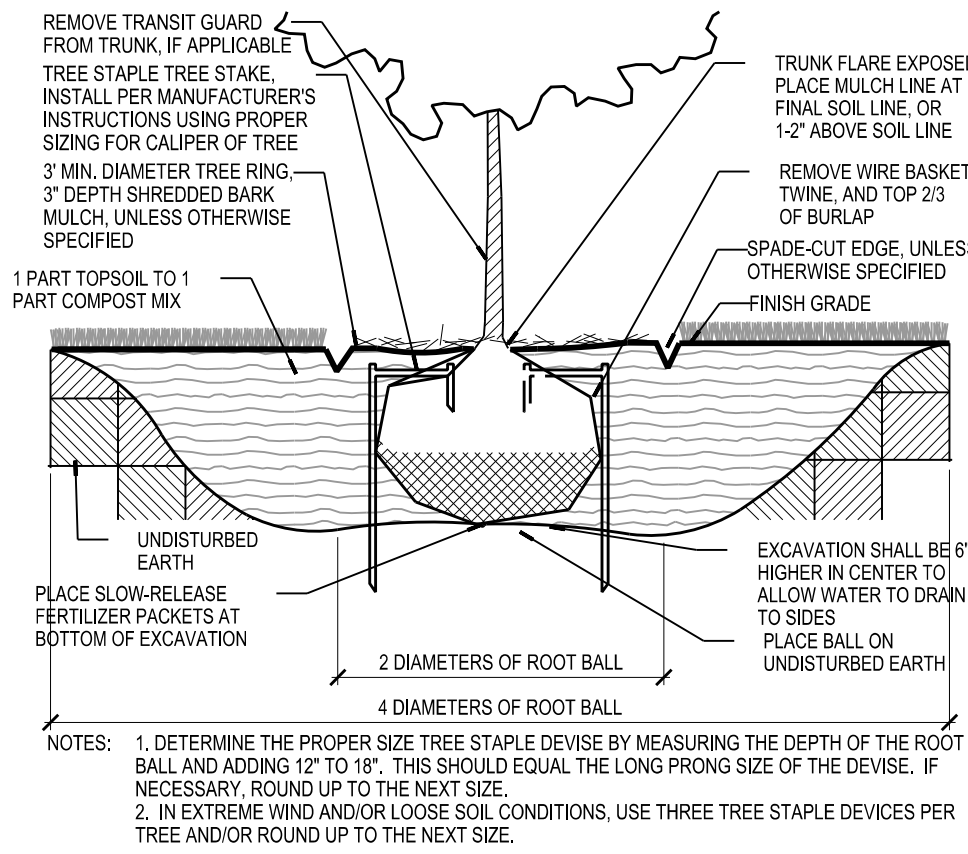
SOUTH POINT ROAD PUBLIC WORKS STORAGE BUILDING CITY OF MADISON

PROJECT NO. 48150	DRAWN BY TEAM
REVIEWED BY JCT	APPROVED BY JLH
ISSUANCES	REVISIONS
Design Development Review - 08/23/2012	
DEPT. OF COMMERCE PLAN REVIEW - 09/13/2012	
Bid/Construction - 06/14/2013	
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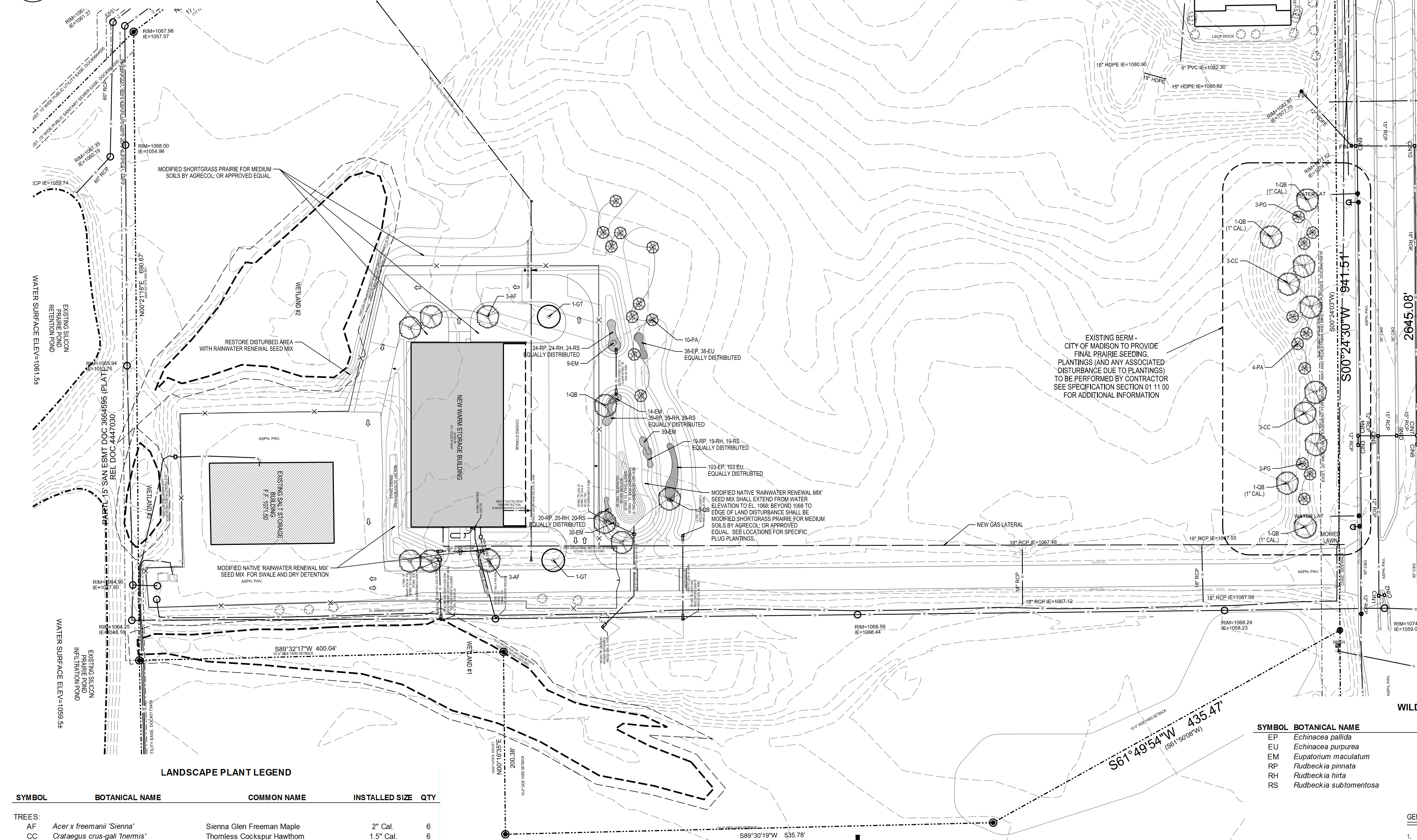
G001

SCALE:
1/8"=1'-0"
PLOTTED BY
BradW

X:\48150\48150A\G001.dgn



24 B.B. SHRUB AND TREE PLANTING DETAIL
C101 SCALE: NONE



SYMBOL	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	QTY
TREES:				
AF	<i>Acer x freemanii</i> 'Sienna'	Sienna Glen Freeman Maple	2" Cal.	6
CC	<i>Crataegus crus-galli</i> 'Inermis'	Thornless Cockspur Hawthorn	1.5" Cal.	6
GT	<i>Gleditsia triacanthos</i> var. 'inermis	Sunburst Honeylocust	2" Cal.	2
PA	<i>Picea abies</i>	Norway Spruce	6' High	14
PG	<i>Picea glauca</i> 'Densata'	Black Hills Spruce	6' High	6
QB	<i>Quercus bicolor</i>	Swamp White Oak	1" Cal.	4
QB	<i>Quercus bicolor</i>	Swamp White Oak	2" Cal.	4

SYMBOL	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	QTY
EP	<i>Echinacea pallida</i>	Pale Purple Coneflower	2.5" Plug	141
EU	<i>Echinacea purpurea</i>	Purple Coneflower	2.5" Plug	141
EM	<i>Eupatorium maculatum</i>	Spotted Joe Pye-Weed	2.5" Plug	92
RP	<i>Rudbeckia pinnata</i>	Yellow Coneflower	2.5" Plug	102
RH	<i>Rudbeckia hirta</i>	Black-eyed Susan	2.5" Plug	102
RS	<i>Rudbeckia subtomentosa</i>	Sweet Black-eyed Susan	2.5" Plug	102

WILDFLOWER PLUG PLANTING

- GENERAL NOTES
- ALL AREAS SHALL BE SEEDED SHORTGRASS PRAIRIE FOR MEDIUM SOILS UNLESS OTHERWISE NOTED.
 - ALL DECIDUOUS TREES SHALL RECEIVE 4" DIAMETER SHREDDED BARK MULCH TREE RINGS.
 - 3" THICK WITH SPADE-CUT EDGE.
 - ALL EVERGREEN TREES SHALL RECEIVE 6" DIAMETER SHREDDED BARK MULCH TREE RING.
 - 3" THICK WITH SPADE-CUT EDGE.
 - SEE DETAIL 24C101 FOR TREE PLANTING DETAIL.
 - PROVIDE EROSION CONTROL MAT ON ALL SEEDED AREAS PER SHEET C203 AND SPECIFICATIONS.

MODIFIED RAINWATER RENEWAL MIX

By Agrecol Nurseries: 608-223-3571 (flood basin rainwater renewal mix)
Seed Mix to be applied at 60 seeds per square foot
Spring Cover Crop: Common Oats at 20-30 lb/s/acre
Winter Cover Crop: Winter Wheat at 15-20 lb/s/acre

SCIENTIFIC NAME	COMMON NAME	OZ./ACRE
WILDFLOWERS		
ASCLEPIAS INCARNATA	MARSH MILKWEED	3
ASTER ERICOIDES	HEATH ASTER	0.1
ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	1.5
BAPTISIA LEUCANTHA	WILD WHITE INDIGO	4
~~EUPATORIUM MACULATUM~~	~~SPOTTED JOE PYE-WEED~~	~~0.8~~
EUPATORIUM PERFOOLIATUM	BONESET	0.5
LIATRIS SPICATA	PRAIRIE BLAZING STAR	2.5
LOBELIA CARDINALIS	CARDINAL FLOWER	0.25
LOBELIA SIPHILITICA	GREAT BLUE LOBELIA	0.5
MONARDA FISTULOSA	WILD BERGAMOT	1.5
PHYSOSTEGIA VIRGINIANA	OBEDIENT PLANT	1.5
RYNCHOPHYLLUM VIRGINIANUM	MOUNTAIN MINT	0.2
~~RATIBIDA PINNATA~~	~~YELLOW CONEFLOWER~~	~~2.5~~
~~RUDBECKIA HIRTA~~	~~BLACK-EYED SUSAN~~	~~2~~
~~RUDBECKIA SUBTOMENTOSA~~	~~SWEET BLACK-EYED SUSAN~~	~~2~~
SOLIDAGO OHIOENSIS	OHIO GOLDENROD	0.5
TRADESCANTIA OHIENSIS	SPIDERWORT	1.25
VERBENA HASTATA	BLUE VERVAIN	1
VERNONIA FASCICULATA	IRONWEED	1
GRASSES, SEDGES & RUSHES		
BROMUS CILIATUS	FRINGED BROME	20
CALAMAGROSTIS CANADENSIS	BLUE JOINT GRASS	1
CAREX BEBBII	BEBB'S SEDGE	2
CAREX CRAWFORDII	CRAWFORD'S SEDGE	1
CAREX CRINITA	FRINGED SEDGE	0.75
CAREX STIPATA	COMMON FOX SEDGE	1.5
CAREX VULPINOIDEA	BROWN FOX SEDGE	1
ELYMUS CANADENSIS	CANADA WILD RYE	24
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	32
GLYCERIA GRANDIS	REED MANNA GRASS	3
PANICUM VIRGATUM	SWITCH GRASS	3.5
SCIRPUS ATROVIRENS	DARK-GREEN BULLRUSH	0.5
SCIRPUS CYPERINUS	WOOL GRASS	0.3
SORGHASTRUM NUTANS	INDIAN GRASS	5
SPARTINA PECTINATA	PRAIRIE CORD GRASS	3

Note: Species with strike-through are to be removed from seed mix and installed as plugs per plan.

MODIFIED SHORTGRASS PRAIRIE FOR MEDIUM SOILS

By Agrecol Nurseries: 608-223-3571
Seed Mix to be applied at a minimum of 60 seeds per square foot
Spring Cover Crop: Common Oats at 20-30 lb/s/acre
Winter Cover Crop: Winter Wheat at 15-20 lb/s/acre

SCIENTIFIC NAME	COMMON NAME	OZ./ACRE
WILDFLOWERS		
ALLIUM CERNUUM	NODDING ONION	6
AMORPHA CANESCENS	LEADPLANT	2.5
ASCLEPIAS TUBEROSA	BUTTERFLY WEED	1.5
ASTER AZUREUS	SKY-BLUE ASTER	1.5
ASTER LAEVIS	SMOOTH BLUE ASTER	2
ASTER NOVAE-ANGLIAE	NEW ENGLAND ASTER	0.5
CHAMAECRISTA FASCICULATA	PASTURE PEA	10
COREOPSIS PALMATA	PRAIRIE COREOPSIS	6
DALEA CANDIDA	WHITE PRAIRIE CLOVER	4
DALEA PURPUREA	PURPLE PRAIRIE CLOVER	3
~~ECHEINACEA PALLIDA~~	~~PALE PURPLE CONEFLOWER~~	~~2.5~~
~~ECHEINACEA PURPUREA~~	~~PURPLE CONEFLOWER~~	~~6~~
ERYNGIUM YUCCIFOLIUM	RATTLESNAKE MASTER	3
HELOPSIS HELIANTHOIDES	EARLY SUNFLOWER	10
LIATRIS PYCNOSTACHYA	PRAIRIE BLAZING STAR	2.5
MONARDA FISTULOSA	WILD BERGAMOT	1.5
PENSTEMON DIGITALIS	SMOOTH PENSTEMON	0.5
POTENTILLA ARGUTA	PRAIRIE CINQUEFOIL	0.2
GRASSES, SEDGES & RUSHES		
BOULELOUVA CURTIPENDULA	SIDE OATS GRAMA	42
CAREX BICKNELLII	COPPER-SHOULDERED OVAL SEDGE	1
ELYMUS CANADENSIS	CANADA WILD RYE	32
ELYMUS VIRGINICUS	VIRGINIA WILD RYE	32
KOeleria cristata	JUNE GRASS	2
SCHIZACHYRIUM SCOPARIUM	LITTLE BLUESTEM	32

Note: Species with strike-through are to be removed from seed mix and installed as plugs per plan. Prairie along South Point Road shall be entire seed mix.

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PROJECT NUMBER: 48150
APPROVED BY: JAH
REVIEWED BY: JCT
DRAWN BY: KAU
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OVERALL SITE LAYOUT AND LANDSCAPE PLAN

C101

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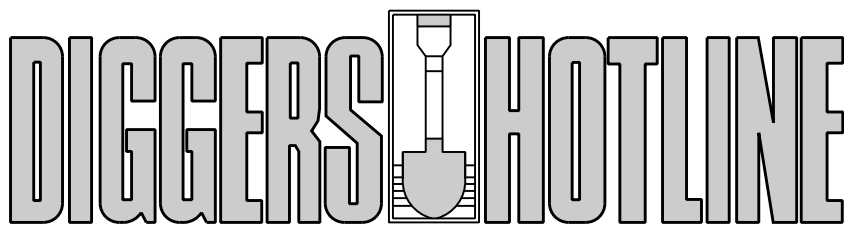
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CITY OF MADISON
MADISON, WISCONSIN

ISSUANCES

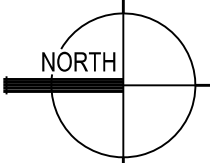
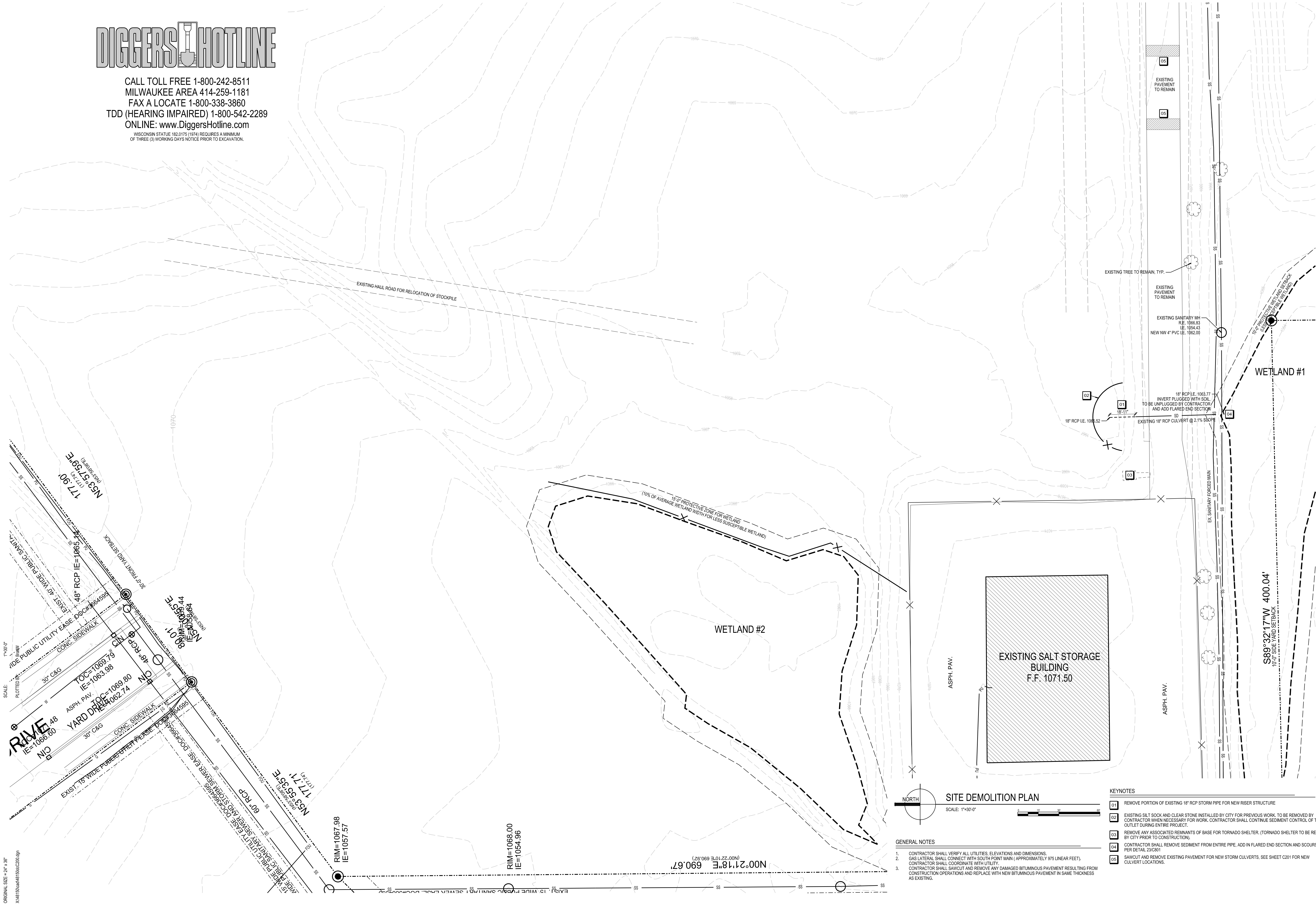
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DESIGN DEVELOPMENT PACKET - 08/23/2012
100% CONSTRUCTION DOCUMENTS 08.31.2012
Dep. of Commerce Plan Review - 08/13/2012
Bid Construction - 08/14/2013

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ONLINE: www.DiggersHotline.com

WISCONSIN STATUTE 182.0175 (1974) REQUIRES A MINIMUM
OF THREE (3) WORKING DAYS NOTICE PRIOR TO EXCAVATION.



SITE DEMOLITION PLAN

SCALE: 1"=30'-0"

GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL UTILITIES, ELEVATIONS AND DIMENSIONS.
- GAS LATERAL SHALL CONNECT WITH SOUTH POINT MAIN (APPROXIMATELY 975 LINEAR FEET). CONTRACTOR SHALL COORDINATE WITH UTILITY.
- CONTRACTOR SHALL SAWCUT AND REMOVE ANY DAMAGED BITUMINOUS PAVEMENT RESULTING FROM CONSTRUCTION OPERATIONS AND REPLACE WITH NEW BITUMINOUS PAVEMENT IN SAME THICKNESS AS EXISTING.

KEYNOTES

- REMOVE PORTION OF EXISTING 18" RCP STORM PIPE FOR NEW RISER STRUCTURE
- EXISTING SILT SOCK AND CLEAR STONE INSTALLED BY CITY FOR PREVIOUS WORK. TO BE REMOVED BY CONTRACTOR WHEN NECESSARY FOR WORK. CONTRACTOR SHALL CONTINUE SEDIMENT CONTROL OF THIS OUTLET DURING ENTIRE PROJECT.
- REMOVE ANY ASSOCIATED REMNANTS OF BASE FOR TORNADO SHELTER, (TORNADO SHELTER TO BE REMOVED BY CITY PRIOR TO CONSTRUCTION).
- CONTRACTOR SHALL REMOVE SEDIMENT FROM ENTIRE PIPE, ADD IN FLARED END SECTION AND SCOURSTOP PER DETAIL 23C801
- SAWCUT AND REMOVE EXISTING PAVEMENT FOR NEW STORM CULVERTS. SEE SHEET C201 FOR NEW CULVERT LOCATIONS.

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**SOUTH POINT ROAD
PUBLIC WORKS STORAGE BUILDING
CITY OF MADISON
MADISON, WISCONSIN**

PROJECT NUMBER	APPROVED BY	REVIEWED BY	DRAWN BY	DATE
48150	JLH	JCT	KAU	6/14/2013

SITE DEMOLITION
PLAN

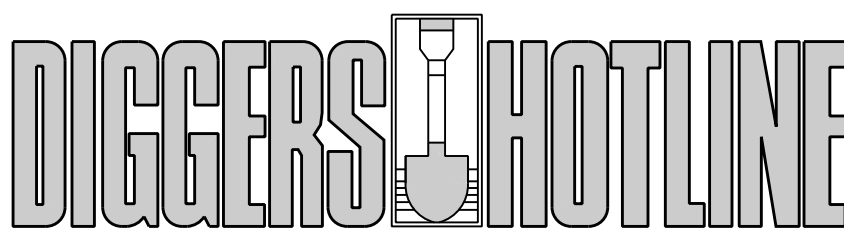
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SCALE: 1"=30'-0"
PLOTTED BY: BAW

ORIGINAL SIZE = 24" x 36"
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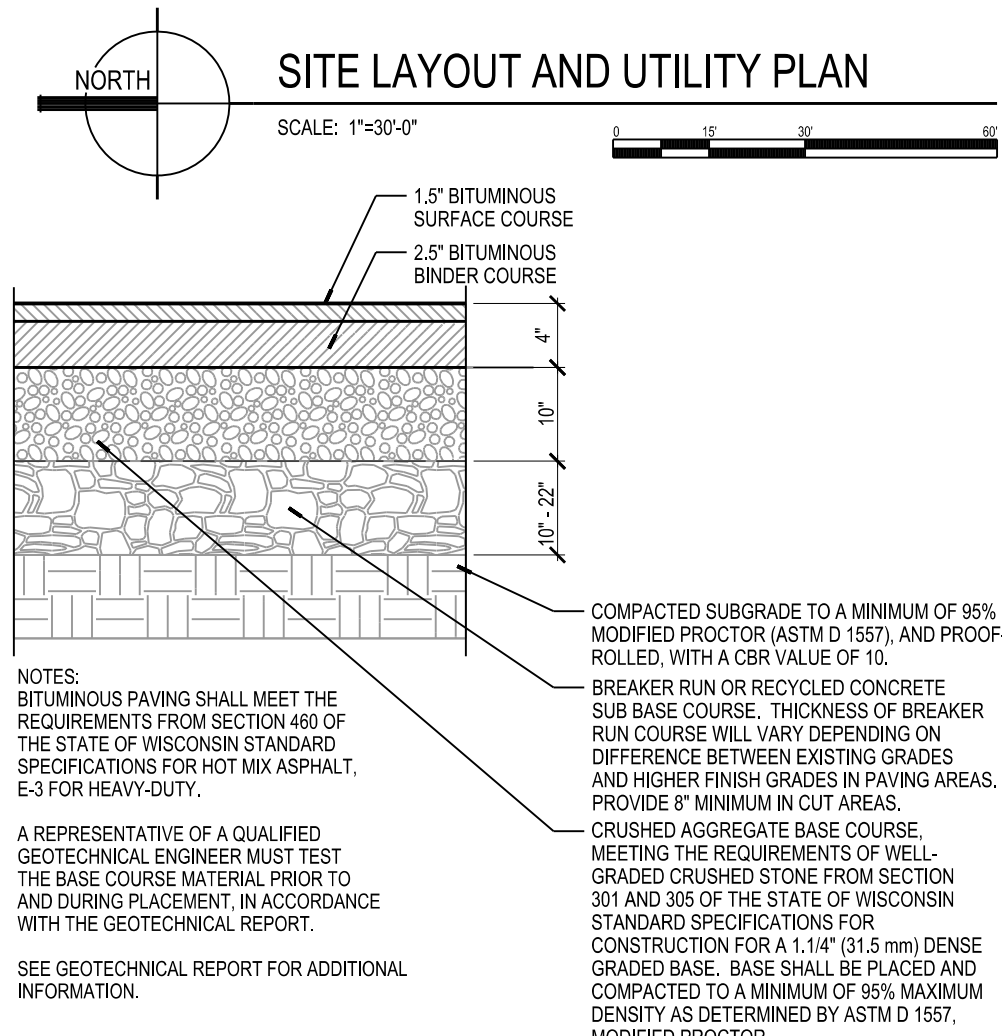
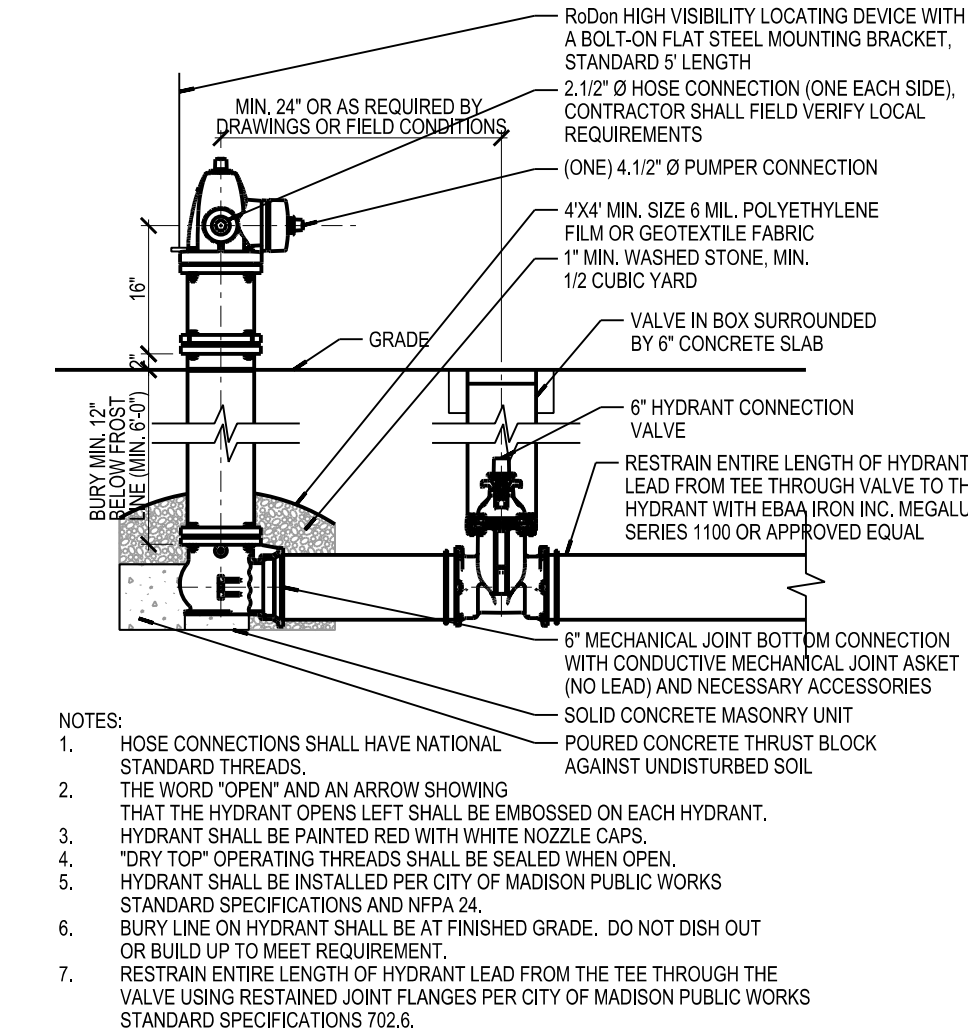
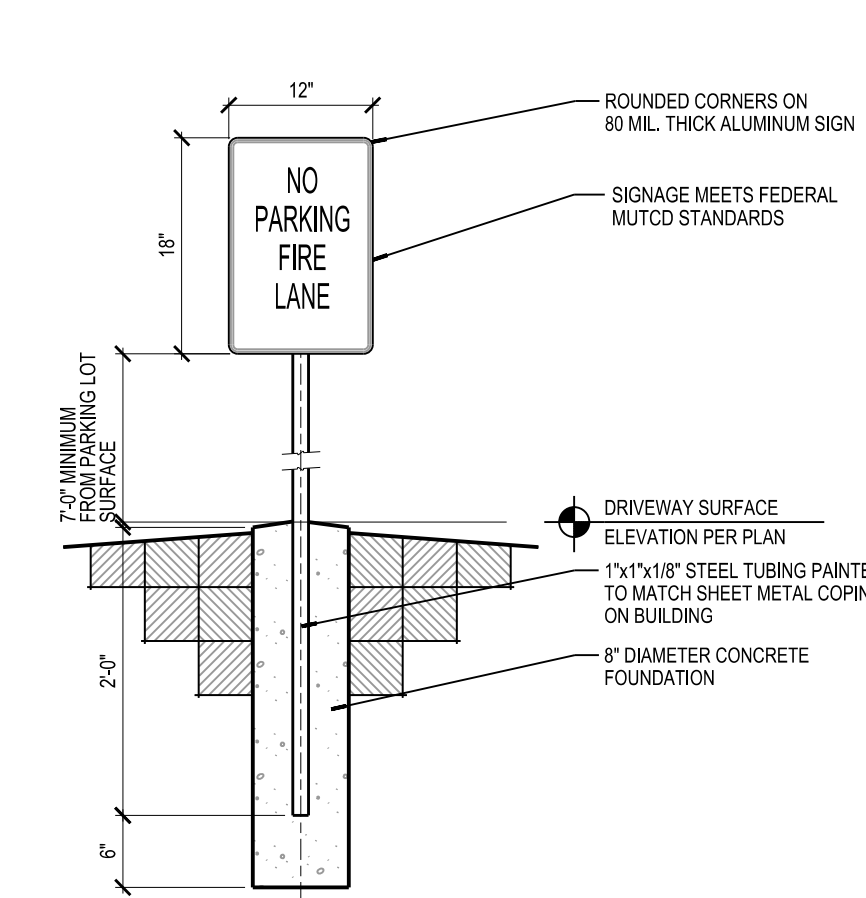
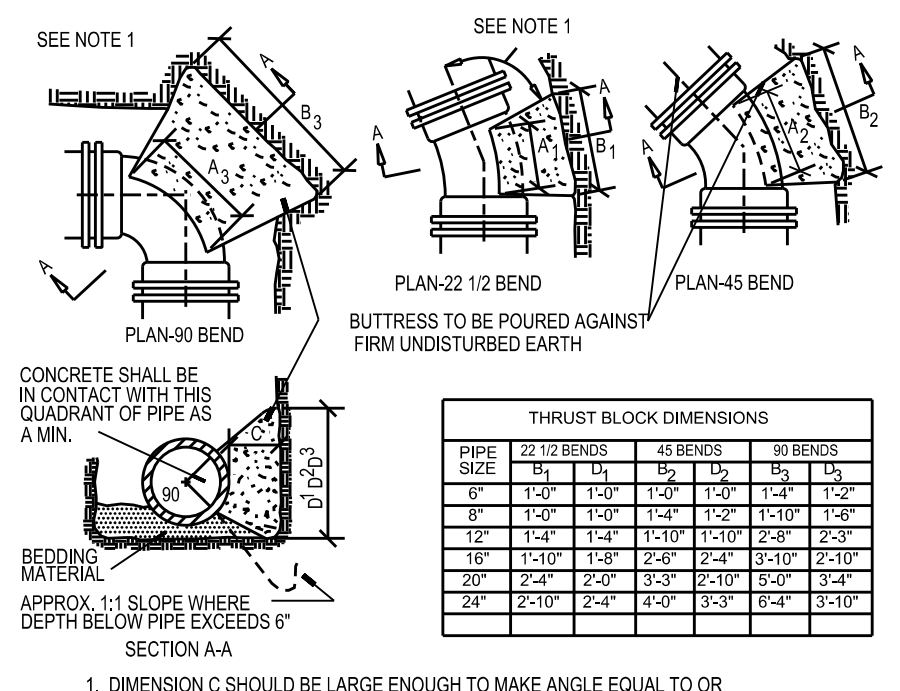
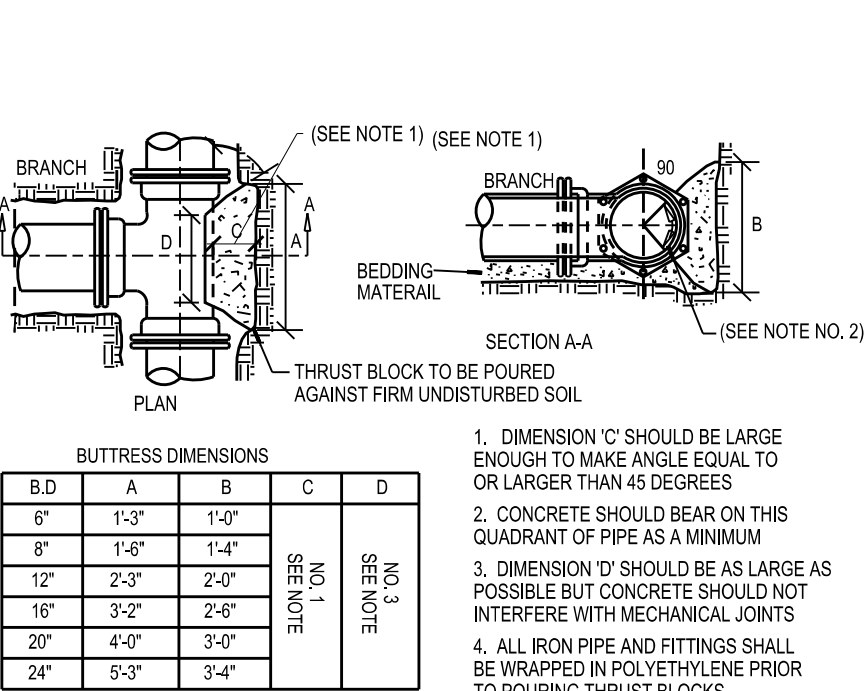
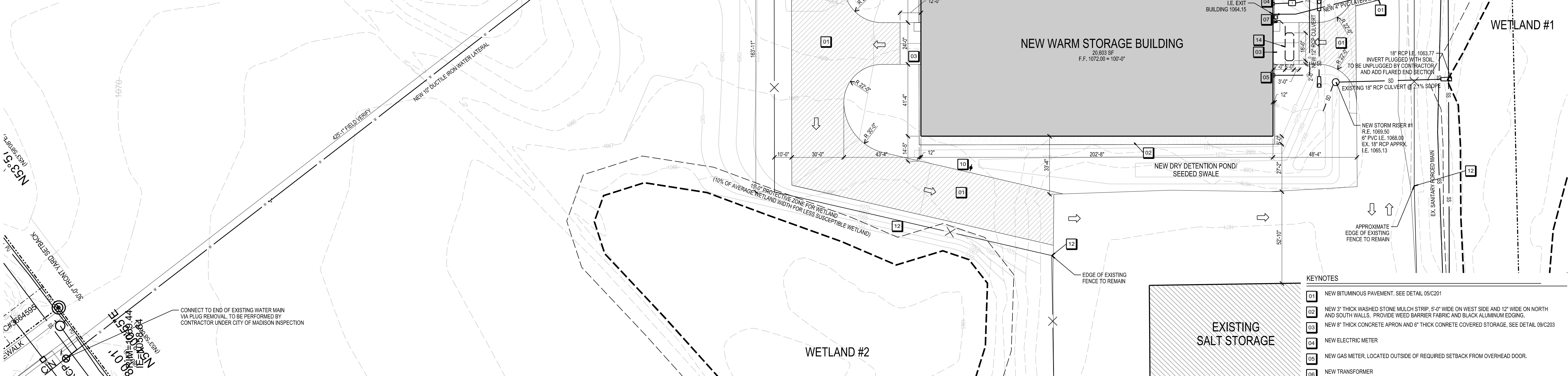
SITE LINE LEGEND	
	PROPERTY LINE
	EASEMENT LINE
	EXISTING INTERMEDIATE CONTOUR
	EXISTING INDEX CONTOUR
	NEW INTERMEDIATE CONTOUR
	NEW INDEX CONTOUR
	PAVEMENT
	RAILING
	FENCE
	STORM DRAIN
	SANITARY SEWER
	WATER
	PUBLIC WATER MAIN
	GAS
	ELECTRICAL POWER
	UNDERGROUND ELECTRICAL POWER
	TELEPHONE
	UNDERGROUND TELEPHONE

NOTE: ALL LINE TYPES MAY NOT BE USED IN THIS SET.



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OF THREE (3) WORKING DAYS NOTICE PRIOR TO EXCAVATION.



- KEYNOTES**
- 01 NEW BITUMINOUS PAVEMENT, SEE DETAIL 05/C201
 - 02 NEW 3" THICK WASHED STONE MULK STRIP, 5'-0" WIDE ON WEST SIDE AND 12" WIDE ON NORTH AND SOUTH WALLS. PROVIDE WEED BARRIER FABRIC AND BLACK ALUMINUM EDGING.
 - 03 NEW 8" THICK CONCRETE APRON AND 6" THICK CONCRETE COVERED STORAGE. SEE DETAIL 09/C203
 - 04 NEW ELECTRIC METER
 - 05 NEW GAS METER, LOCATED OUTSIDE OF REQUIRED SETBACK FROM OVERHEAD DOOR.
 - 06 NEW TRANSFORMER
 - 07 NEW FIRE DEPARTMENT CONNECTION WITH HORN AND STROBE
 - 08 NEW FIRE HYDRANT, SEE DETAIL 09/C201. HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO COMPLETION OF CONSTRUCTION ON PROJECT SITE PER CITY FIRE DEPARTMENT REQUIREMENTS. HYDRANTS SHALL BE INSTALLED SO THAT THE LARGE DIAMETER DISCHARGE FACES PAVED AREA.
 - 09 NEW THRUST BLOCKING, TYPICAL. SEE DETAILS 17/C201 AND 21/C201
 - 10 NEW FIRE LANE SIGNAGE, SEE DETAIL 13/C201
 - 11 RELOCATED 12'-0" WIDE MANUAL SWING GATES WITH 3-STRAND VERTICAL BARBED WIRE, PADLOCK AND KNOX BOX. SEE DEMOLITION PLAN FOR EXISTING FENCE LOCATION.
 - 12 NEW 8'-0" HIGH CHAIN LINK FENCE WITH 18" HIGH 3-STRAND BARBED WIRE WITH ANGLED BRACKETS ANGLED AWAY FROM NEW BUILDING. SEE DETAIL 13/C201.
 - 13 NEW TEE FITTING FOR FUTURE DEVELOPMENT, MARKED IN FIELD WITH POST, TYPICAL
 - 14 NEW DETECTOR LOOP IN PVC CONDUIT UNDER CONCRETE PAVEMENT. INSTALLED BY ELECTRICAL CONTRACTOR.
 - 15 NEW WATER VALVE IN ACCORDANCE WITH CITY OF MADISON AND STATE OF WISCONSIN REQUIREMENTS. SEE DETAIL 22/C201
- GENERAL NOTES**
- 1. CONTRACTOR SHALL VERIFY ALL UTILITIES, ELEVATIONS AND DIMENSIONS.
 - 2. GAS LATERAL SHALL CONNECT WITH SOUTH POINT MAIN (APPROXIMATELY 975 LINEAR FEET). CONTRACTOR SHALL COORDINATE WITH UTILITY.
 - 3. PROVIDE THRUST BLOCKING FOR WATER LATERAL PER DETAILS 17/C201 AND 21/C201.
 - 4. ANY SIDEWALK, CURB AND GUTTER THAT ABUTS THE PROPERTY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED PER CITY ENGINEER.
 - 5. ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL BE PERFORMED BY A CITY LICENSED CONTRACTOR. GENERAL CONTRACTOR SHALL OBTAIN A STREET EXCAVATION PERMIT FOR THE INSTALLATION OF UTILITIES REQUIRED TO SERVE THE PROJECT. THE PERMIT IS AVAILABLE AT: <http://www.cityofmadison.com/engineering/permits.cfm>
 - 6. ANY DAMAGE DONE TO THE PAVEMENT ON SOUTH POINT OR YARD DRIVE SHALL BE RESTORED IN ACCORDANCE WITH THE CITY OF MADISON'S PATCHING CRITERIA.
 - 7. TRACER WIRE SHALL BE INSTALLED ABOVE ALL SANITARY, STORM, AND WATER LINES THAT CONNECT TO A PUBLIC UTILITY. TRACER WIRE SHALL BE A MINIMUM OF 1/2" GAUGE, PLASTIC-COATED COPPER, BURIED WITHIN 6" AND DIRECTLY ABOVE THE TOP OF THE PIPE. THE TRACER WIRE SHALL BE BROUGHT TO THE SURFACE AT LEAST EVERY 400'. PROTECT THE WIRE AT THE ACCESS POINTS. THE COLOR OF TRACER WIRE SHALL BE AS FOLLOWS:
 - GREEN FOR SANITARY SEWER
 - BROWN FOR STORM SEWER
 - BLUE FOR POTABLE WATER
 - 8. CONTRACTOR SHALL COORDINATE WITH THE CITY OF MADISON ON REQUIRED WATER VALVES AND CONNECTIONS.
 - 9. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ALLIANT ENERGY ON ELECTRICAL SERVICE AND MECHANICAL CONTRACTOR SHALL COORDINATE WITH MGE ON GAS SERVICE.

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SOUTH POINT ROAD
PUBLIC WORKS STORAGE BUILDING
CITY OF MADISON
MADISON, WISCONSIN

PROJECT NUMBER
48150

APPROVED BY
JLH

REVIEWED BY
JCT

DRAWN BY
KAU

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ISSUANCES

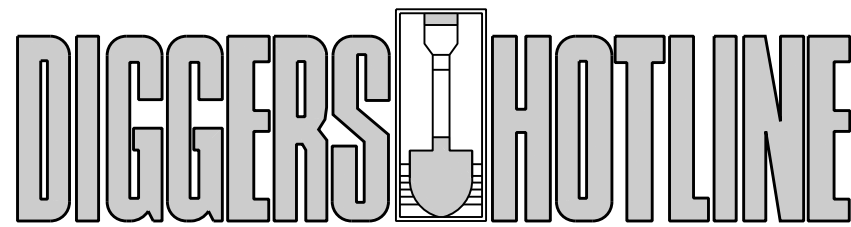
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DESIGN DEVELOPMENT PACKET - 08/23/2012
100% CONSTRUCTION DOCUMENTS 08.31.2012
Dept. of Commerce Plan Review - 08/13/2012
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REVISIONS

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SITE LAYOUT AND
UTILITY PLAN

C201



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WISCONSIN STATUTE 182.0175 (1974) REQUIRES A MINIMUM
OF THREE (3) WORKING DAYS NOTICE PRIOR TO EXCAVATION.

POST-CONSTRUCTION STORMWATER MANAGEMENT REGULATIONS

NR 151.121 Post-Construction Performance Standards

This site is required to meet the NR 151.121 Post-Construction Standards.

Total Suspended Solids: Per NR 151.122

For New Development, reduce to the maximum extent practicable, the total suspended solids load by 80% based on an average annual rainfall, as compared to no runoff management controls.

Peak Discharge: Per NR 151.123

For New Development, reduce to the maximum extent practicable, the 1-year, 24-hour and 2-year, 24-hour and 10-year, 24-hour post-construction peak runoff discharge rates to pre-development peak runoff discharge rates. Safely pass the 100-year, 24-hour storm event.

Infiltration: Per NR 151.124

Exempt; this site has soils that have less than 0.6 in/hr infiltration rate.

Protective Areas: Per NR 151.125

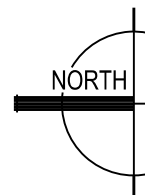
Less Susceptible Wetlands: 10% of average wetland width, not less than 10' nor more than 30'

GRADING AND SEEDING NOTES

- All disturbed areas shall be seeded and mulched immediately following grading activities.
- All proposed grades are finished grades. Contractor shall verify all grades and ensure proper drainage. Contractor shall report any discrepancies to the design professional prior to completion.
- Within 10 days after installation of filtration device and final stabilization of the site, the General Contractor shall notify the design professional that the site is ready for as-built certification.

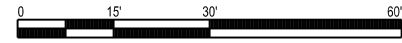
SITE LINE LEGEND	
	PROPERTY LINE
	EASEMENT LINE
	EXISTING INTERMEDIATE CONTOUR
	EXISTING INDEX CONTOUR
	NEW INTERMEDIATE CONTOUR
	NEW INDEX CONTOUR
	PAVEMENT
	RAILING
	FENCE
	STORM DRAIN
	SANITARY SEWER
	WATER
	PUBLIC WATER MAIN
	GAS
	ELECTRICAL POWER
	UNDERGROUND ELECTRICAL POWER
	TELEPHONE
	UNDERGROUND TELEPHONE

NOTE: ALL LINE TYPES MAY NOT BE USED IN THIS SET.



SITE GRADING PLAN

SCALE: 1"=30'-0"

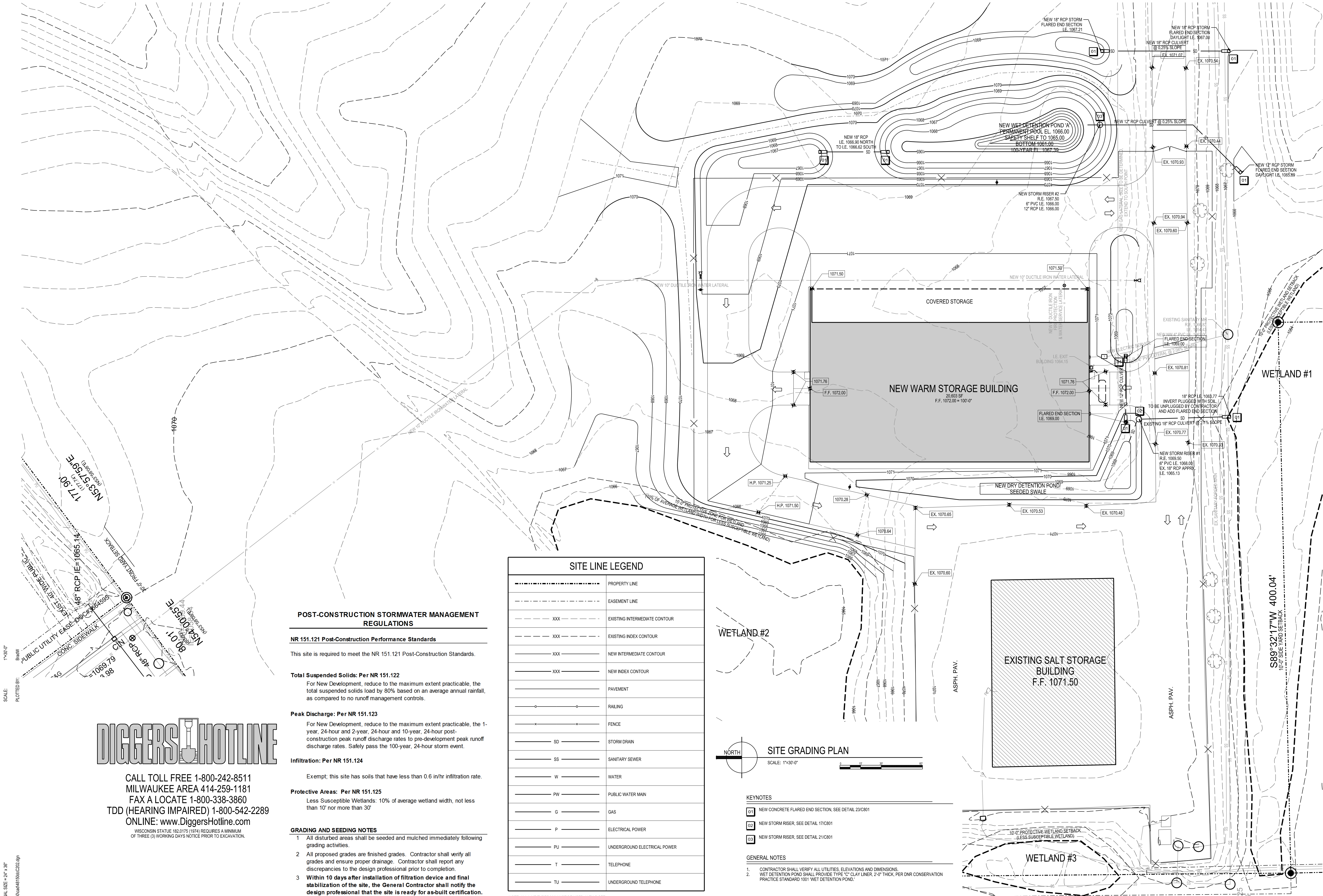


KEYNOTES

- 01 NEW CONCRETE FLARED END SECTION. SEE DETAIL 23/C801
- 02 NEW STORM RISER. SEE DETAIL 17/C801
- 03 NEW STORM RISER. SEE DETAIL 21/C801

GENERAL NOTES

- CONTRACTOR SHALL VERIFY ALL UTILITIES, ELEVATIONS AND DIMENSIONS.
- WET DETENTION POND SHALL PROVIDE TYPE "C" CLAY LINER, 2'-0" THICK, PER DNR CONSERVATION PRACTICE STANDARD 1001 WET DETENTION POND.



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PROJECT NUMBER	48150
APPROVED BY	JLH
REVIEWED BY	JCT
DRAWN BY	KAU
DATE	6/14/2013 1:47:19 PM

SITE GRADING PLAN

SOUTH POINT ROAD
PUBLIC WORKS STORAGE BUILDING
CITY OF MADISON
MADISON, WISCONSIN

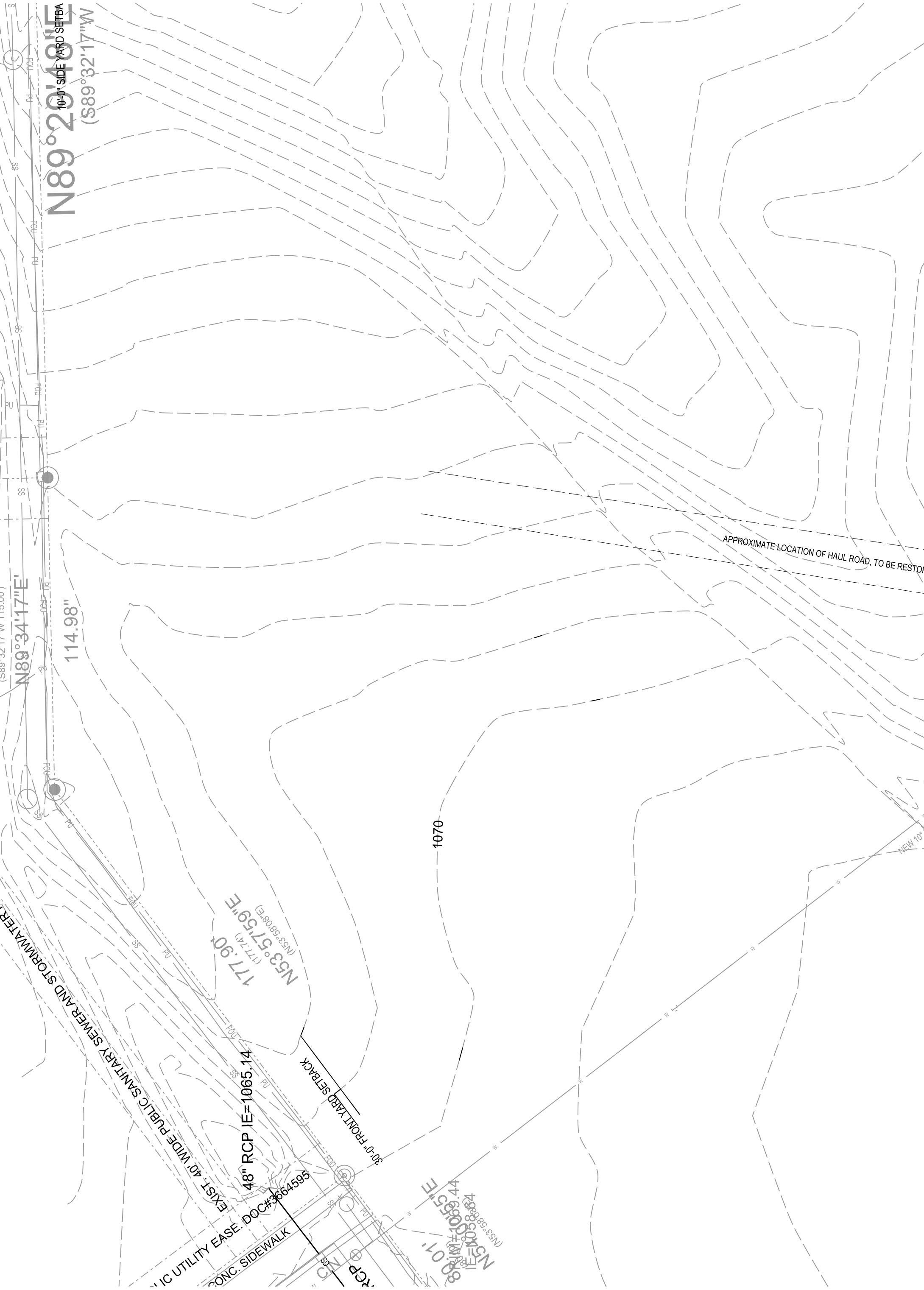
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Dept. of Commerce Plan Review - 08/13/2012	
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- EROSION CONTROL NOTES:**
- If land disturbance will exceed 1 Acre, Contractor shall have a signed copy of the **WPDES General Permit Specific to the Property and signed by the DNR Stormwater Agent, as well as the Certificate of Permit Coverage** on property at all times. Land disturb activity shall not commence prior to the start date of coverage as noted on permit. The Contractor shall post the Certificate of Permit Coverage in a conspicuous place on the construction site.
 - Contractor shall notify City of Madison two (2) working days prior to start of land disturbing activity. Contractor shall also file a notice with the City of Madison within ten (10) days after completion of land-disturbing activities.
 - The Contractor shall obtain a **Notice of Termination** with the Department of Natural Resources when all land disturbing activities have ceased, all temporary erosion and sediment controls have been removed, and all disturbed areas have perennial cover of at least 70%.
 - The Contractor shall **routinely inspect and maintain** the erosion and sediment control measures as listed below:
 - At least every 7 days
 - Within 24 hours after a rainfall event of 0.5 inches or greater. A rainfall event should be considered to be the total amount of rainfall recorded in any continuous 24 hour period.
 - The Contractor shall report weekly inspections on the City of Madison's Erosion Control website.
 - The Contractor shall maintain a **weekly written report** of the erosion and sediment control measures and **conduct maintenance** to ensure the measures are in proper working order. The monitoring record shall include at least the following:
 - Date, time and exact place of inspection.
 - Name(s) of individual(s) performing inspection.
 - An assessment of the condition of erosion and sediment controls
 - A description of any erosion and sediment control implementation and maintenance performed.
 - A description of the site's present phase of constructionNote: The DNR Construction Site Inspection Report Form can be used for these inspections, which is located at: http://dnr.wi.gov/runoff/pdf/stormwater/3400187_Construction_Site_Inspection_Report.pdf
 - The Contractor shall utilize erosion and sediment control products that are on the Wisconsin DOT Product Acceptability List (PAL). This list can be found at: <http://www.dot.wi.gov/business/engserv/docs/pal.pdf>.

09
C203

CONCRETE PAVEMENT ISOLATION JOINT
SCALE: 1"=1'-0"



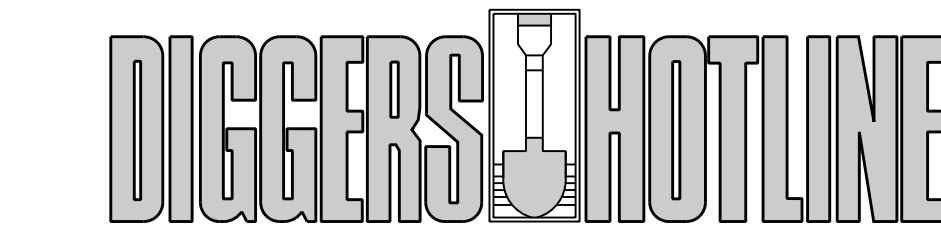
EROSION CONTROL PLAN

KEYNOTES

- 01 NEW SILT FENCE, SEE DETAIL 09/C01
- 02 NEW INLET PROTECTION, SEE DETAIL 11/C01
- 03 NEW TRACKING PAD, SEE DETAIL 13/C01
- 04 NEW CONCRETE WASH-OUT ZONE, SEE DETAIL 18/C01
- 05 TEMPORARY SEDIMENT BASIN WITH TEMPORARY 2" OPENING AT 1066.00. PIPE SHALL BE SURROUNDED WITH CLEAR STONE TO PROTECT FROM CLOGGING. CONTRACTOR SHALL INSPECT OUTLET REGULARLY TO PREVENT CLOGGING. REMOVE 2" ORPIPE FOLLOWING STABILIZATION OF WATERSHED.
- 06 NEW TURF REINFORCEMENT MAT, WISDOT CLASS III TYPE A

RECOMMENDED CONSTRUCTION EROSION CONTROL SEQUENCE:

- INSTALL SILT FENCING.
- EXCAVATE FOR BUILDING. HAUL EXCESS MATERIAL TO DESIGNATED LOCATION ON SITE.
- PREVENT DISTURBANCE OF AREAS THAT WILL NOT BE DISTURBED DURING CONSTRUCTION: MULCH AND/OR TEMPORARILY SEED AREAS TO PREVENT EROSION OVER AREAS THAT WILL BE DISTURBED FOR THE REMAINDER OF THE CONSTRUCTION SCHEDULE.
- INSTALL SUBSURFACE PIPING AND STRUCTURES. PROTECT INLETS WITH FILTER FABRIC SECURED AROUND INLETS.
- FINISH GRADE AND SEED AND EROSION MAT SITE.
- REMOVE SILT FENCE AND INLET PROTECTION WHEN SITE IS STABILIZED.



CALL TOLL FREE 1-800-242-8511
MILWAUKEE AREA 414-259-1181
FAX A LOCATE 1-800-338-3860
TDD (HEARING IMPAIRED) 1-800-542-2289
ONLINE: www.DiggersHotline.com

WISCONSIN STATUTE 182.0175 (1974) REQUIRES A MINIMUM OF THREE (3) WORKING DAYS NOTICE PRIOR TO EXCAVATION.

GENERAL NOTES

- ALL AREAS SHALL BE SEEDED LAWN UNLESS OTHERWISE NOTED.
- ALL SEEDED AREAS SHALL RECEIVE WISDOT CLASS 1 URBAN TYPE B EROSION MAT (LIGHT DUTY DOUBLE NETTED 100% BIOGRADABLE) UNLESS NOTED OTHERWISE.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CITY OF MADISON EROSION CONTROL AND STORMWATER REQUIREMENTS AND SHALL PROVIDE PROPER NOTIFICATION. IF ADDITIONAL EROSION CONTROL MEASURES ARE DEEMED NECESSARY, THEY SHALL BE PROVIDED AND INSTALLED AT CONTRACTOR'S EXPENSE.
- NO PORTION OF DISTURBED LAND SHALL REMAIN UNCOVERED FOR GREATER THAN TWO (2) WEEKS AFTER NOTICE IS GIVEN THAT THE ACTIVITY IS COMPLETED.
- ALL INCIDENTAL MUD-TRACKING OFF-SITE ONTO ADJACENT PUBLIC STREETS SHALL BE CLEANED UP AND REMOVED BY THE END OF EACH WORKING DAY USING PROPER CLEANING AND DISPOSAL METHODS.
- INSTALL SCOURSTOP AT STORM PIPE OUTLETS IMMEDIATELY FOLLOWING INSTALLATION OF FLARED END SECTIONS TO PREVENT EROSION.
- IF TEMPORARY STOCKPILE IS NEEDED, CONTRACTOR SHALL LOCATE ON WORKING AREA OF SITE AND SURROUND WITH SILT FENCE.

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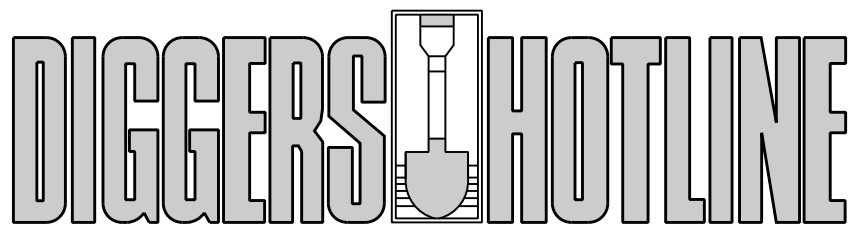
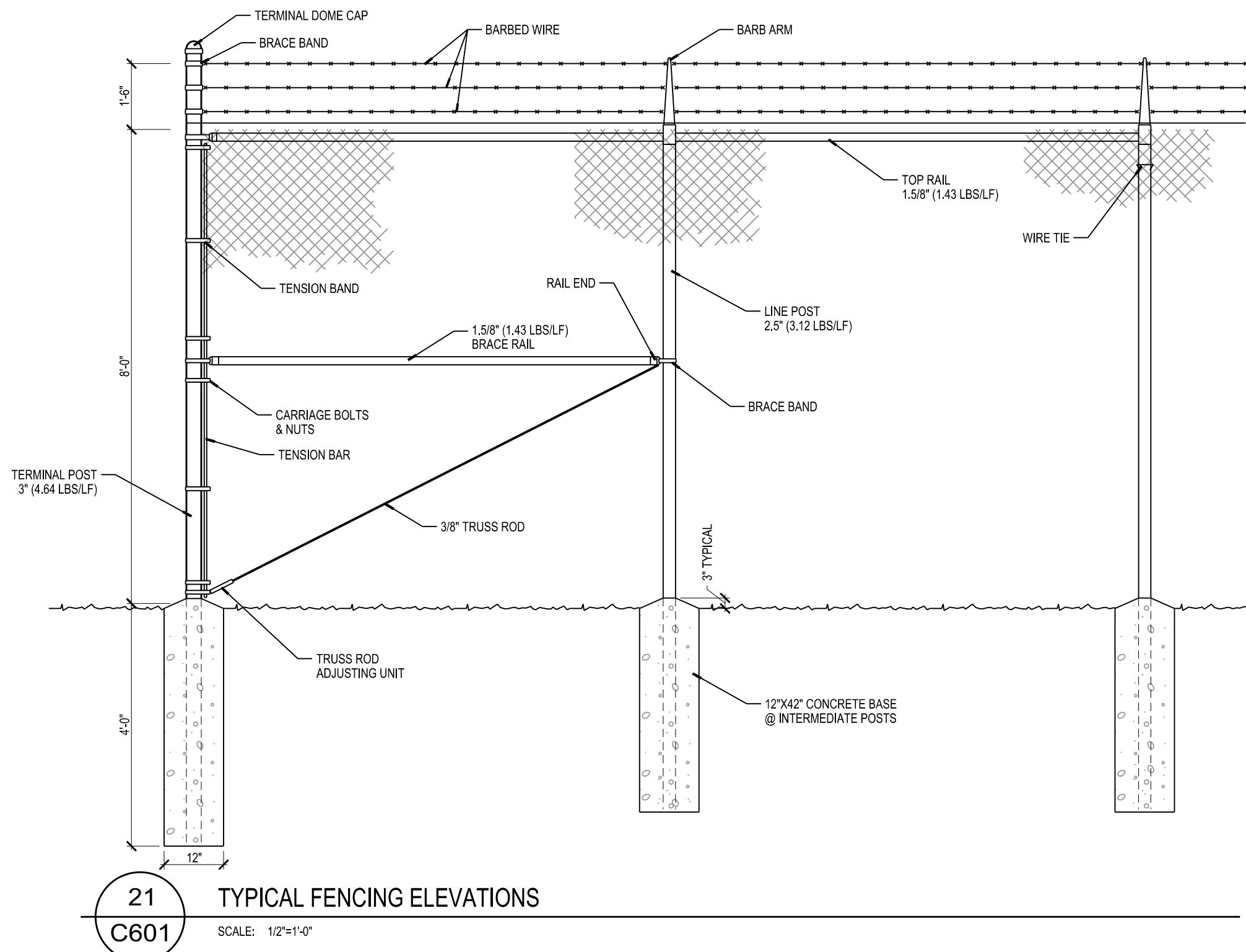
SOUTH POINT ROAD
PUBLIC WORKS STORAGE BUILDING
CITY OF MADISON
MADISON, WISCONSIN

PROJECT NUMBER	APPROVED BY	REVIEWED BY	DRAWN BY
48150	JLH	JCT	KAU

EROSION CONTROL PLAN

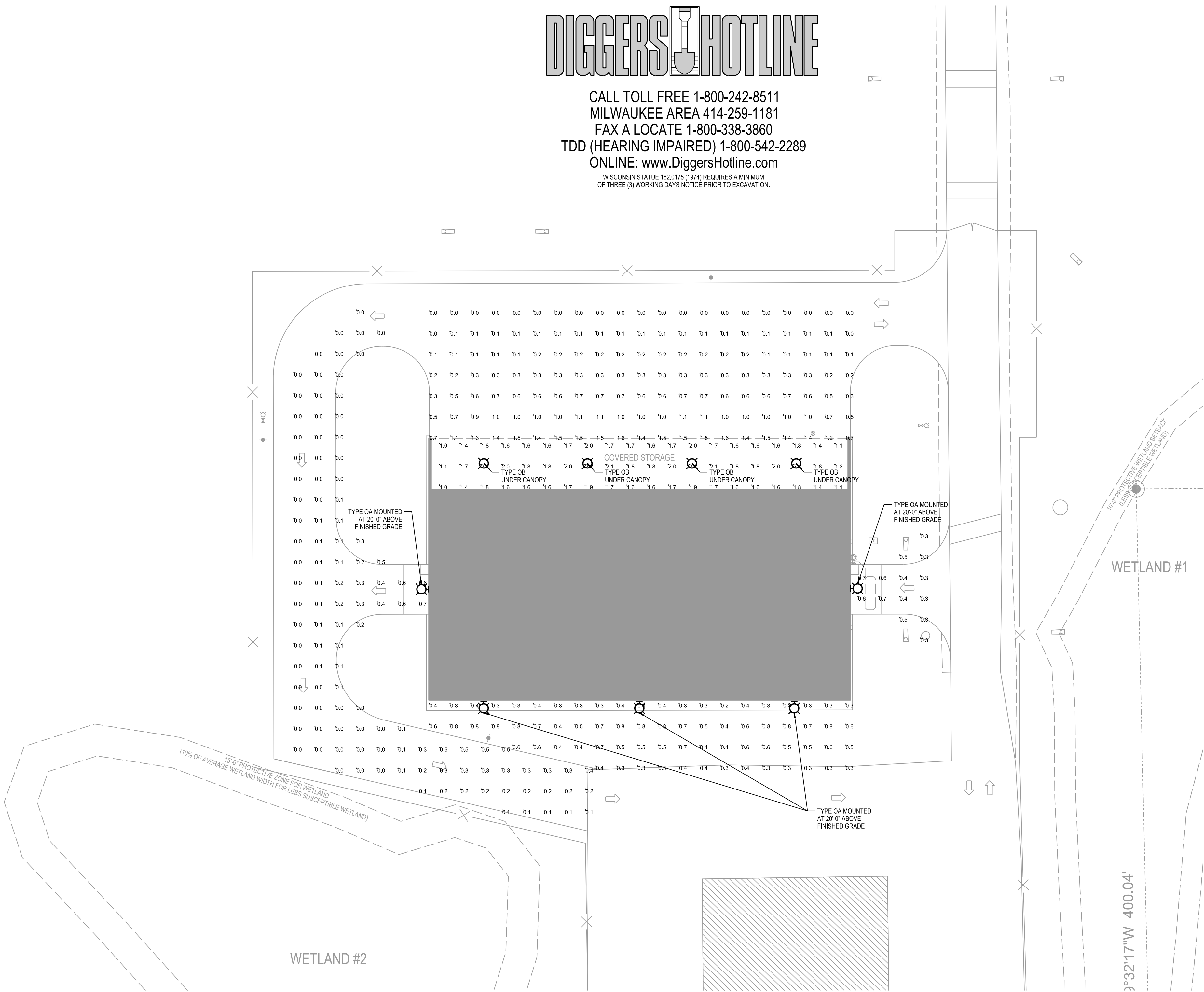
C203

ORIGINAL SIZE = 24" x 36"
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SCALE: 1"=30'-0"
PLOTTED BY: BAW



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ONLINE: www.DiggersHotline.com

WISCONSIN STATUTE 182.0175 (1974) REQUIRES A MINIMUM
OF THREE (3) WORKING DAYS NOTICE PRIOR TO EXCAVATION.



STATISTICS						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
ADJACENT TO BUILDING	+	0.5 fc	0.8 fc	0.2 fc	4.0:1	2.5:1
EAST DRIVE	+	0.5 fc	1.6 fc	0.0 fc	N / A	N / A
NORTH DRIVE	+	0.1 fc	0.7 fc	0.0 fc	N / A	N / A
SOUTH DRIVE	+	0.4 fc	0.7 fc	0.3 fc	2.3:1	1.3:1
UNDER CANOPY	+	1.7 fc	2.2 fc	1.0 fc	2.2:1	1.7:1

LUMINAIRE SCHEDULE							
Symbol	Label	Qty	Catalog Number	Description	Lamp	LLF	Watts
	OA	5	CREE/BETA SEC- EDG-4MB-WM-02-D- UL-B2-ML (525mA)	20 LED TYPE IV MEDIUM 525mA 5700K EDGE SECURITY	TWENTY WHITE LIGHT EMITTING DIODES (LEDs)	1.00	36
	OB	4	CREE/BETA CAN- EDG-5M-DM-02-ML (525mA)	40 LED TYPE V MEDIUM EDGE PARKING STRUCTURE 525mA	FORTY WHITE LIGHT EMITTING DIODES (LEDs)	1.00	66



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PROJECT NUMBER
48150

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JLH

REVIEWED BY
JCT

DRAWN BY
DLO

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SOUTH POINT ROAD
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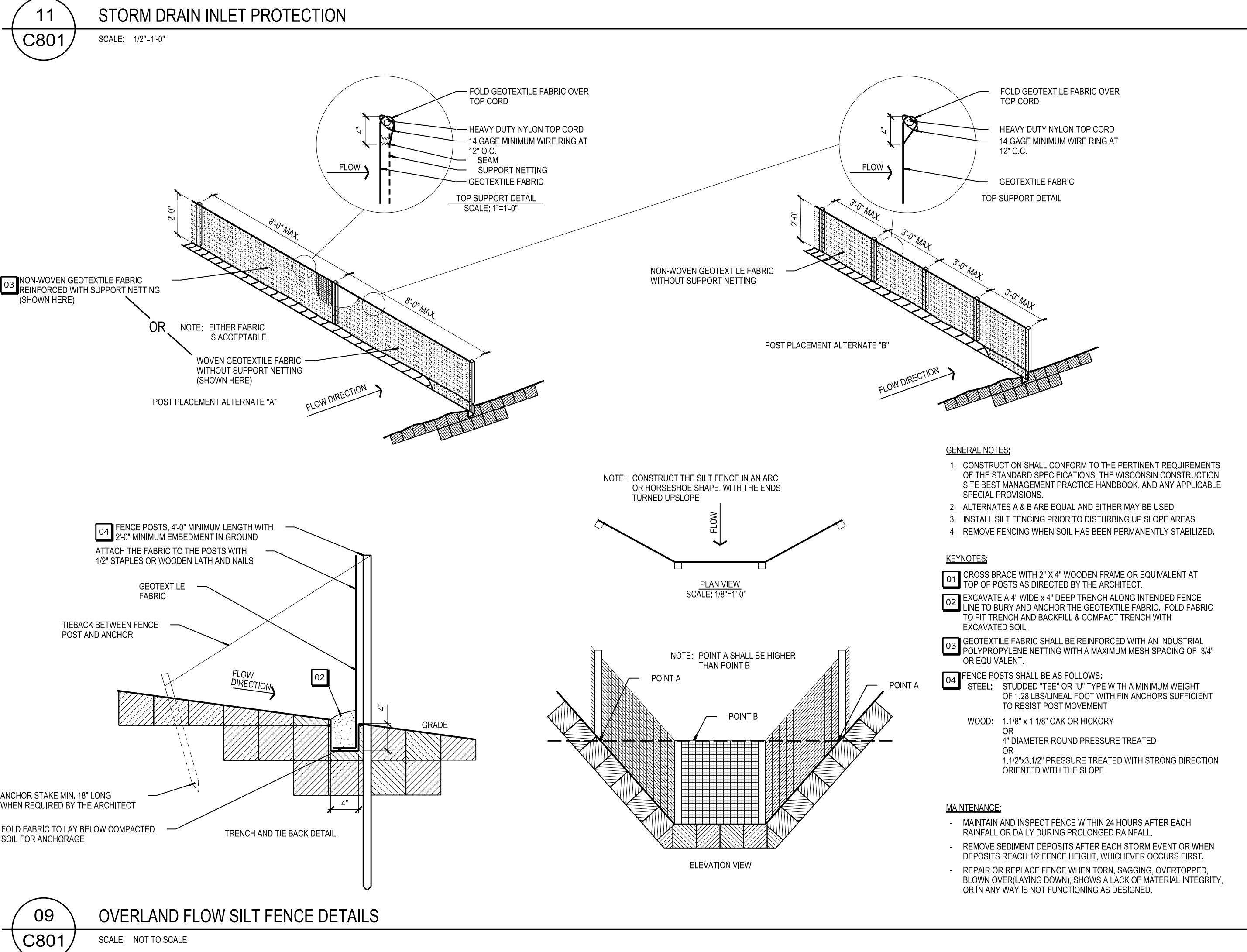
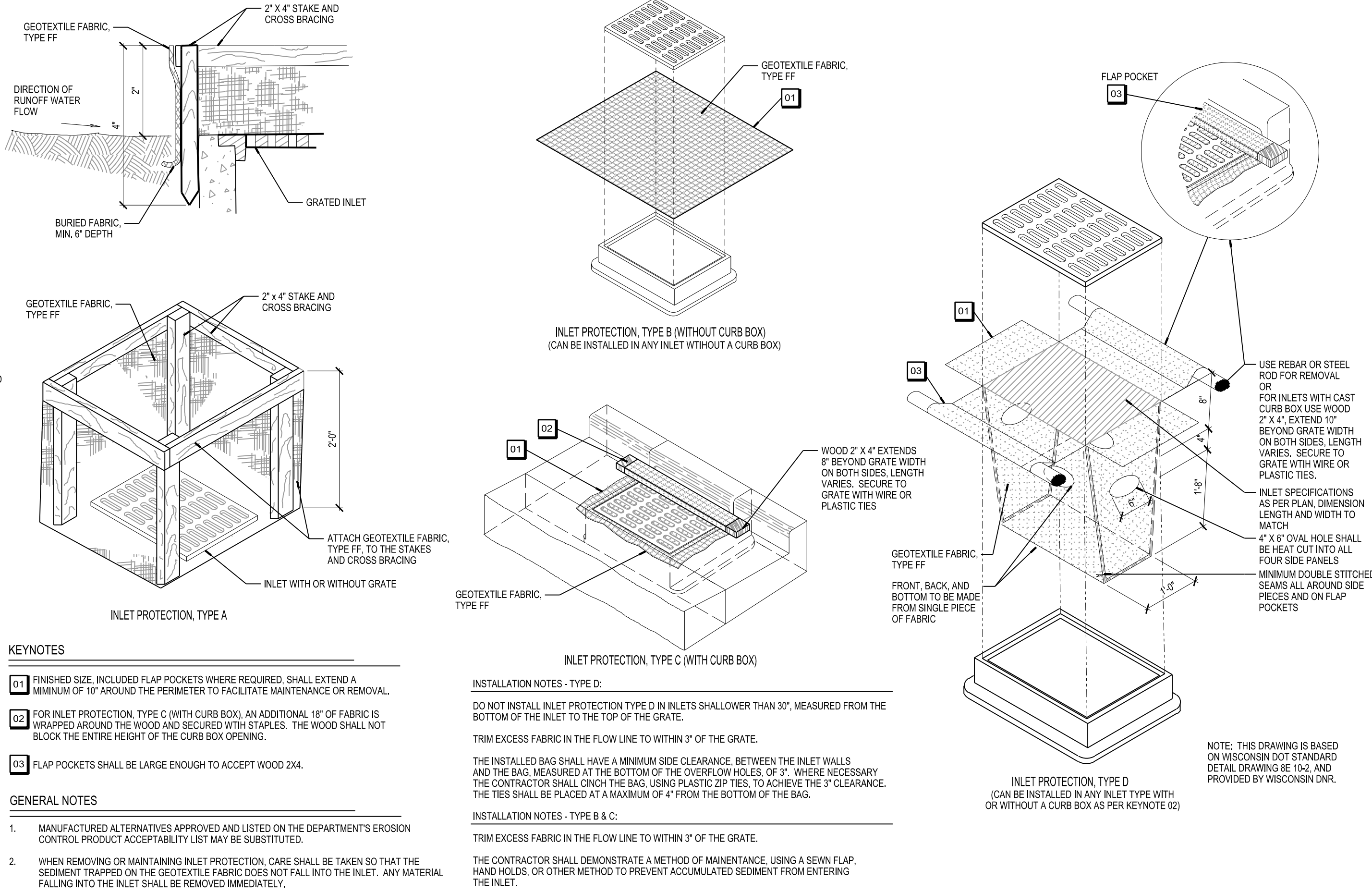
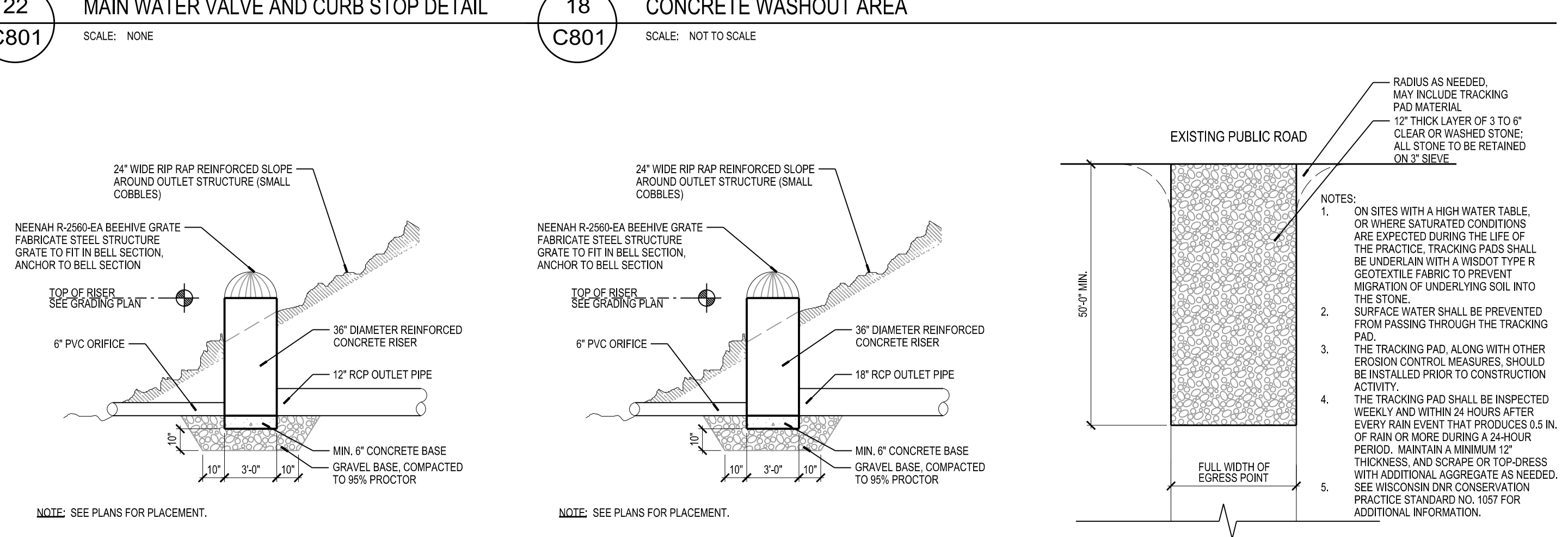
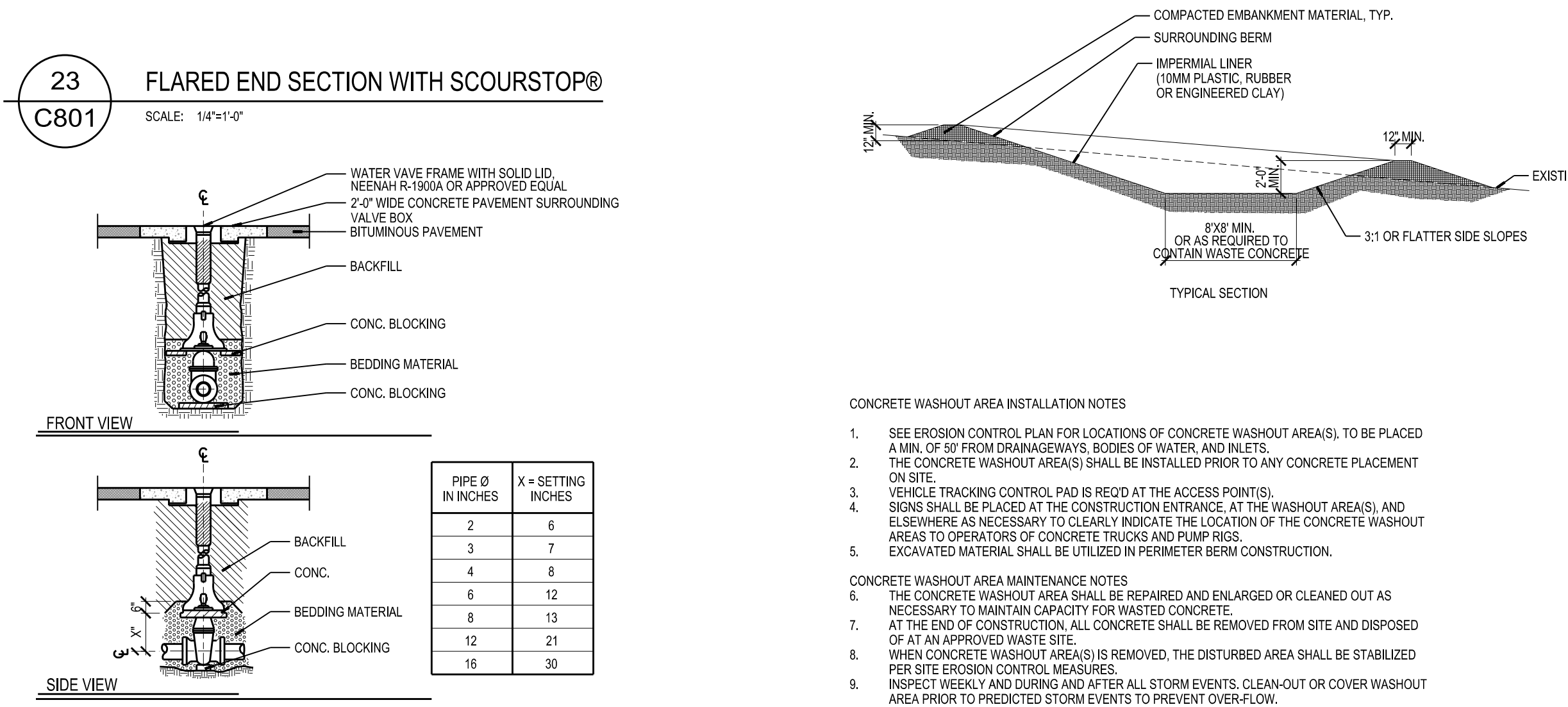
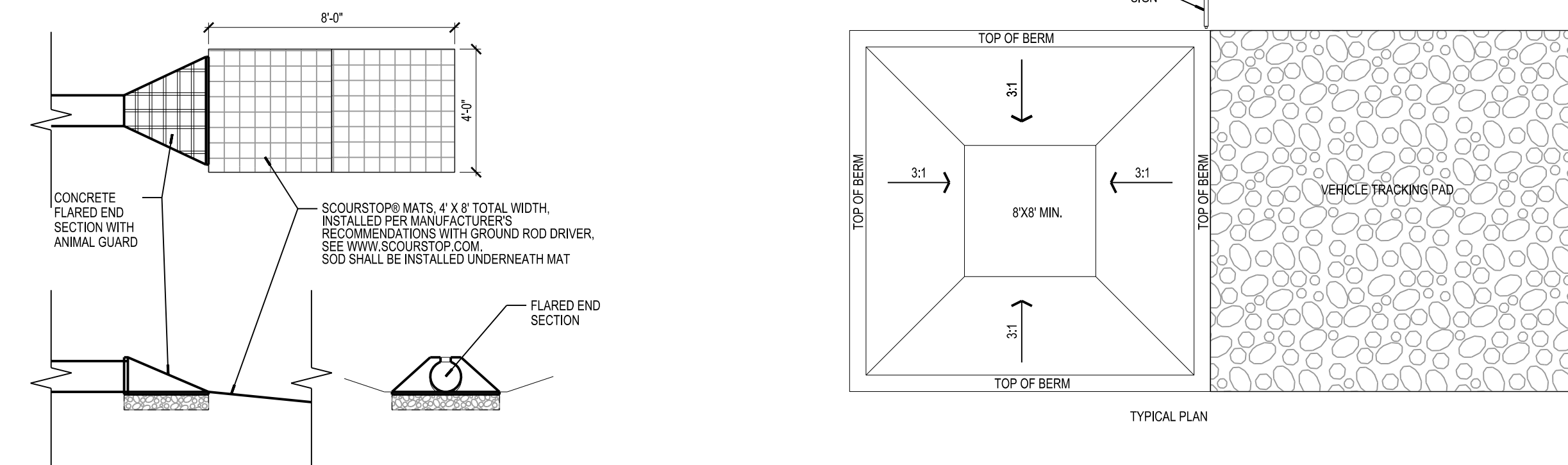
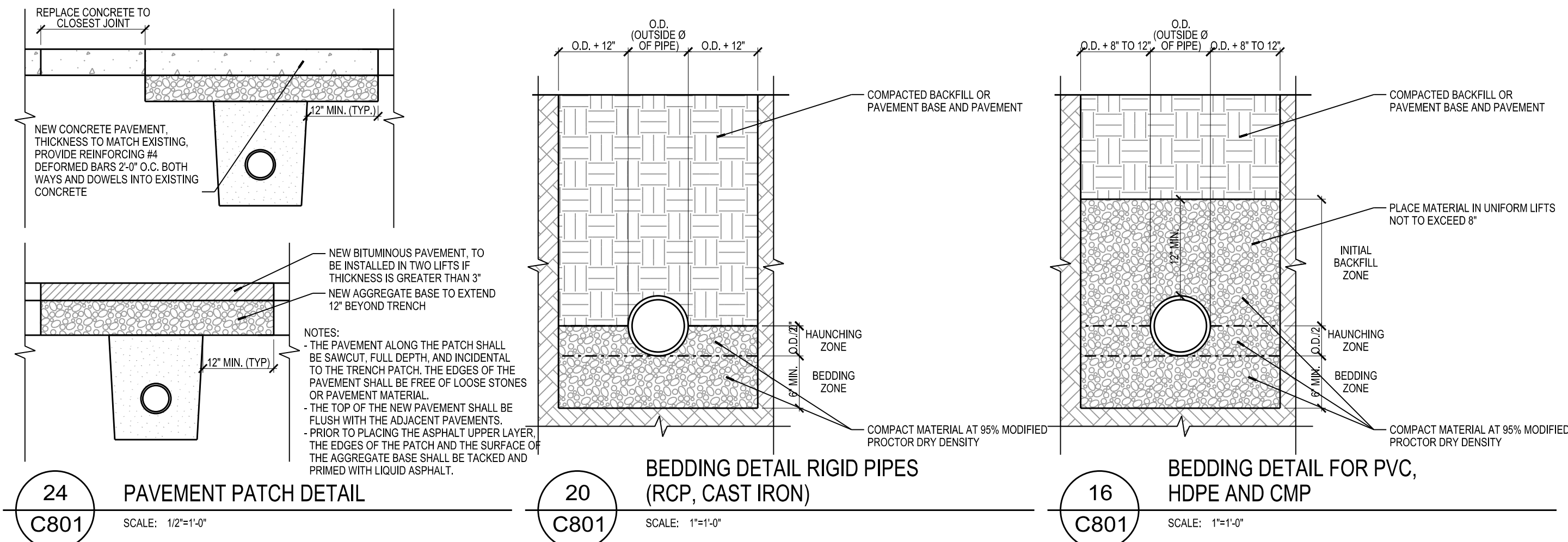
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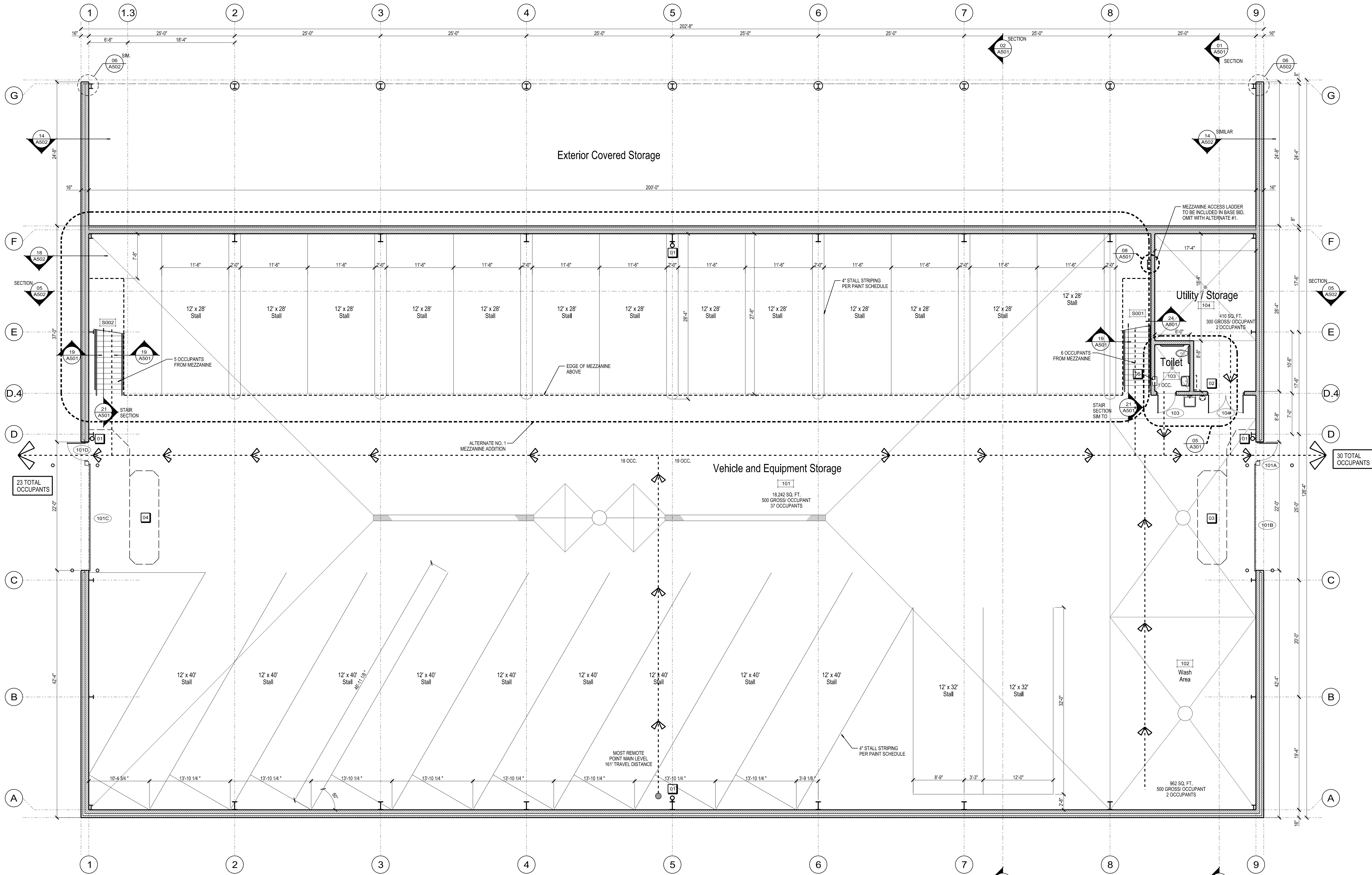
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C601



ORIGINAL SIZE = 24" x 36"
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SCALE: 1/8"=1'-0"
PLOTTED BY: BAW



- GENERAL NOTES
1. MAXIMUM TRAVEL DISTANCE S-2 LOW HAZARD STORAGE, FULLY SPRINKLERED 400'
 2. ALL INTERIOR PARTITIONS ARE TYPE P1, UNLESS NOTED OTHERWISE. SEE DETAIL 02/A301.

- KEYNOTES
- 01 FIRE EXTINGUISHER CABINET LOCATION.
 - 02 NEW MOP RACK. VERIFY LOCATION WITH OWNER.
 - 03 OVERHEAD DOOR CONTROL LOOP WITH DOOR HOLD OPEN AND DOOR CLOSE OPERATION. WIRED THROUGH WALL MOUNTED ON/OFF SWITCH PER ELECTRICAL DRAWINGS. INSTALL ELECTRICAL CONDUIT LOOP PRIOR TO CONCRETE PLACEMENT. NO SAWCUTTING.
 - 04 OVERHEAD DOOR CONTROL LOOP WITH DOOR OPEN OPERATION. WIRED THROUGH WALL MOUNTED ON/OFF SWITCH PER ELECTRICAL DRAWINGS.
 - 05 PROVIDE RECESS IN MASONRY WALL FOR NEW RECESSED PAPER TOWEL WASTE.

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PROJECT NUMBER
48150

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REVIEWED BY
JCT

DRAWN BY
JLH

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SOUTH POINT ROAD
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CITY OF MADISON
MADISON, WISCONSIN

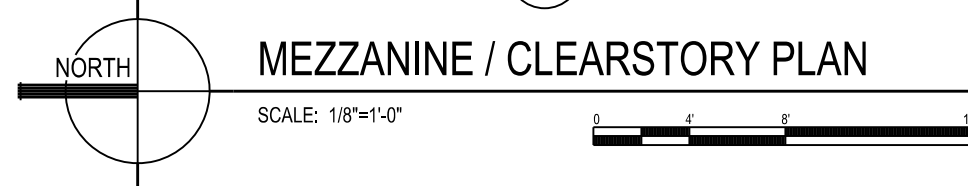
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A101

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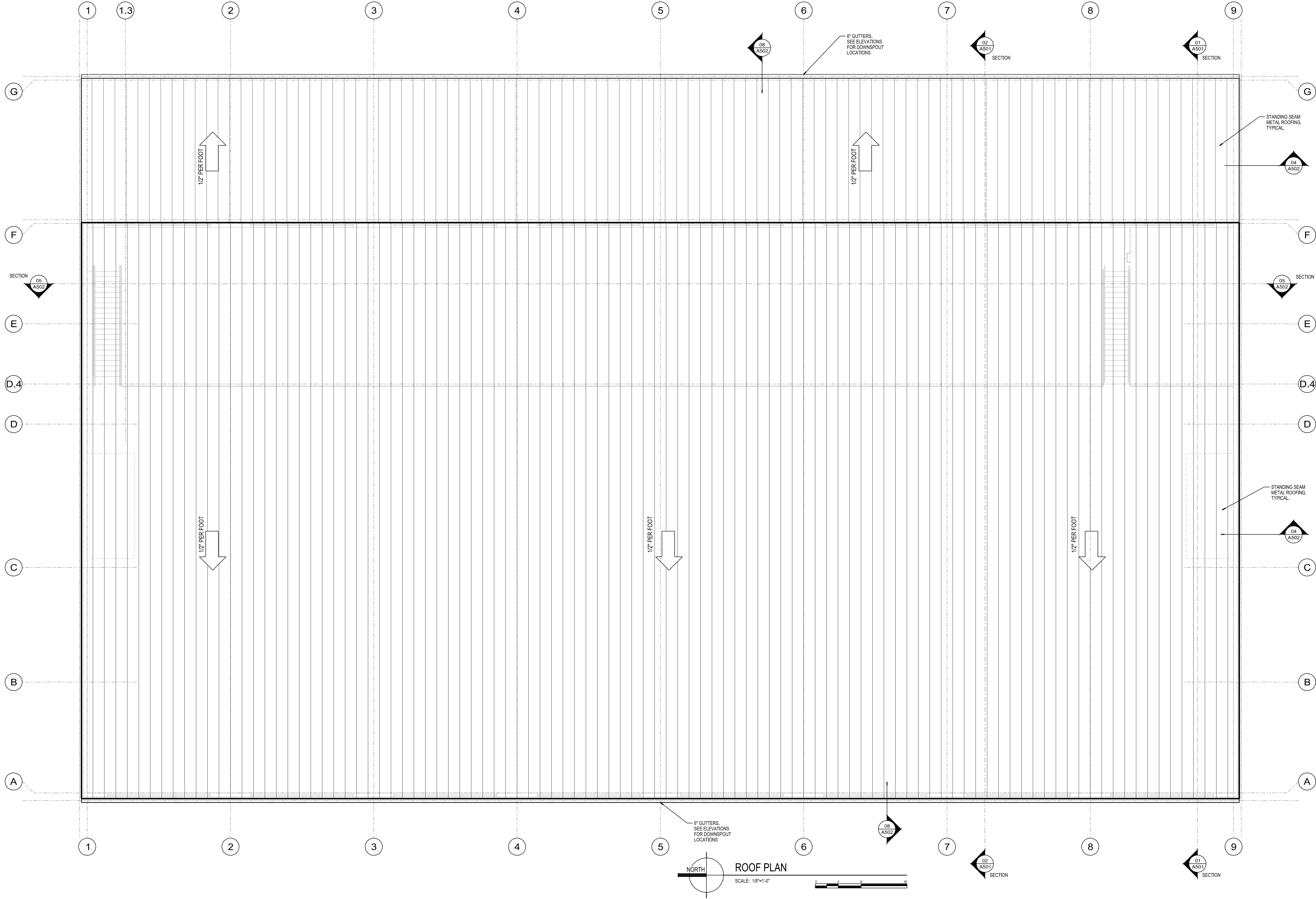
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MEZZANINE/ CLERESTORY
PLAN

A201

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ROOF
PLAN

SOUTH POINT ROAD
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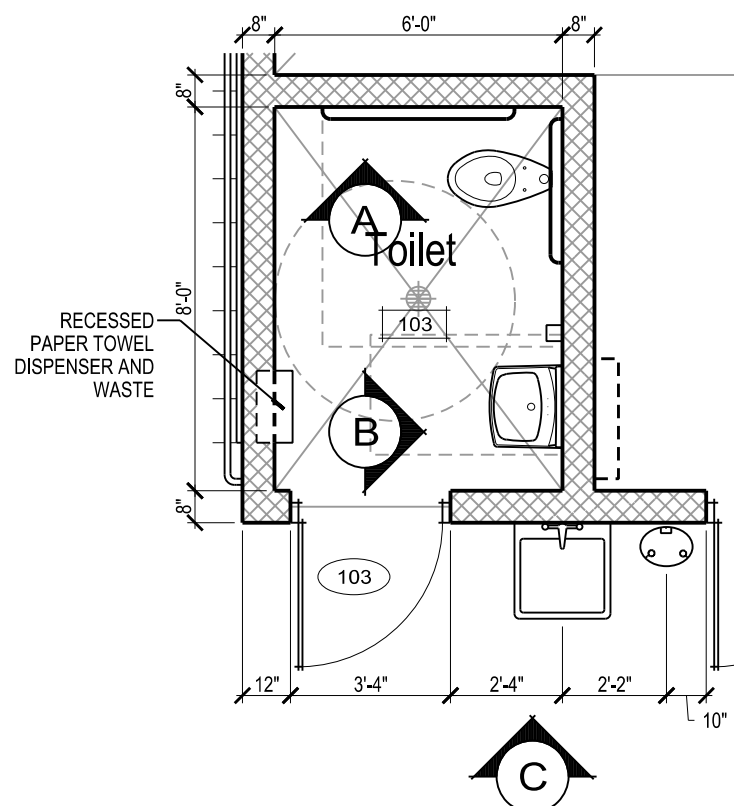
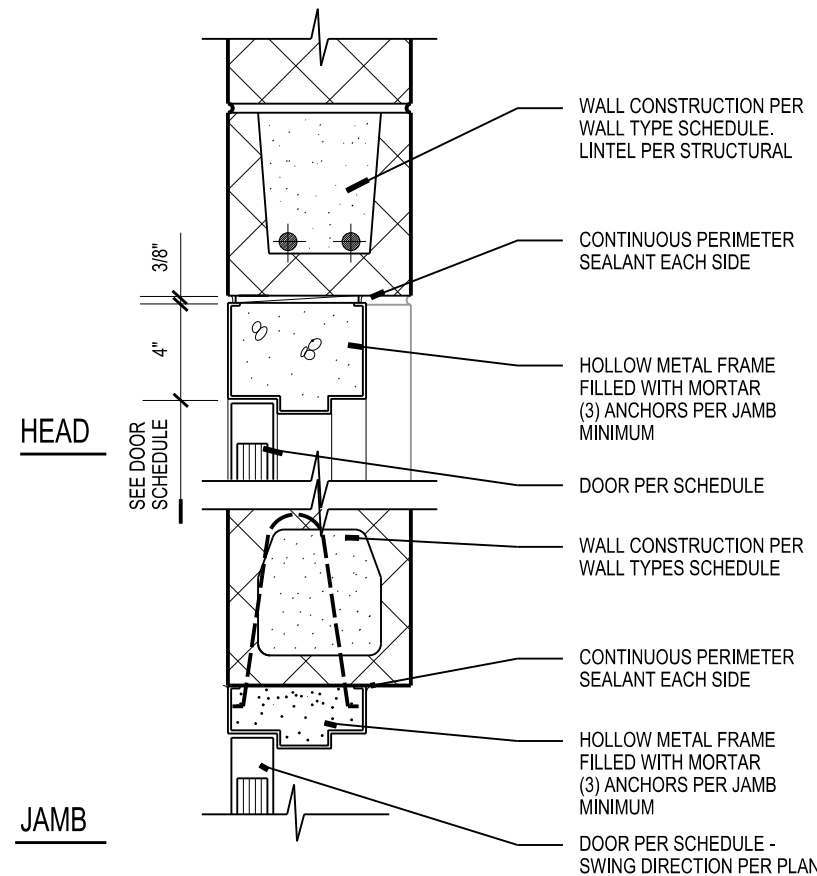
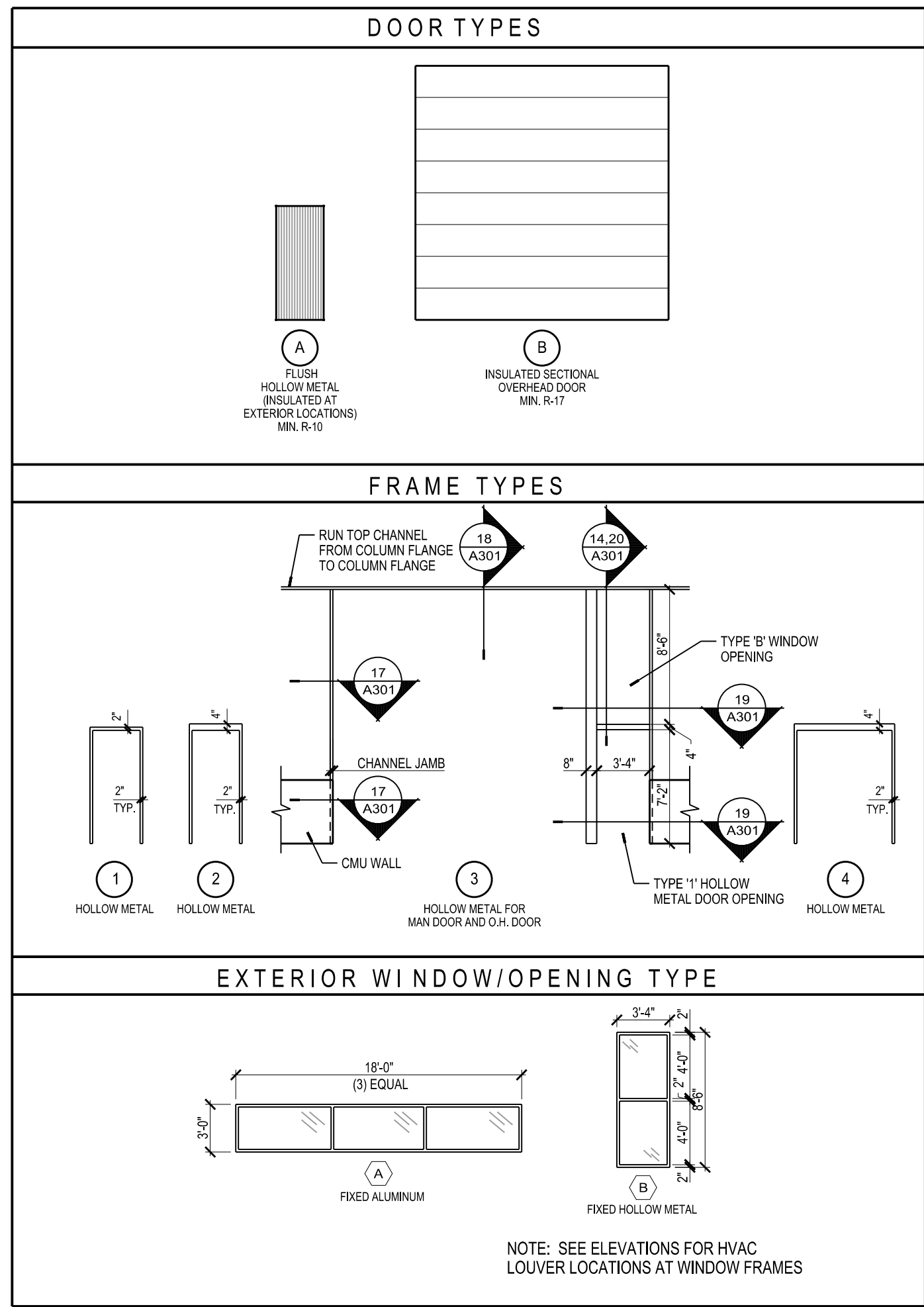
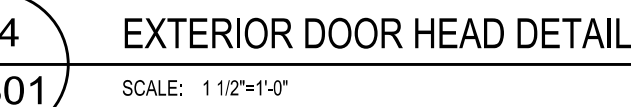
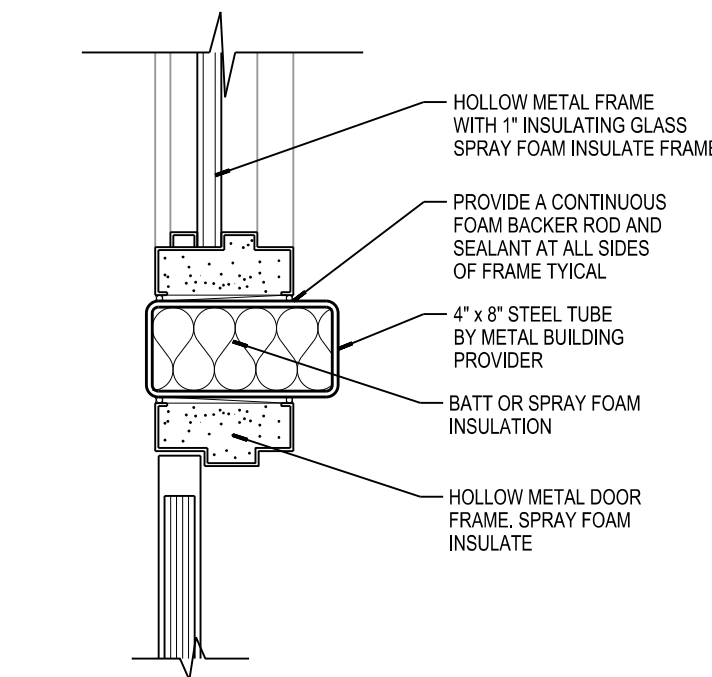
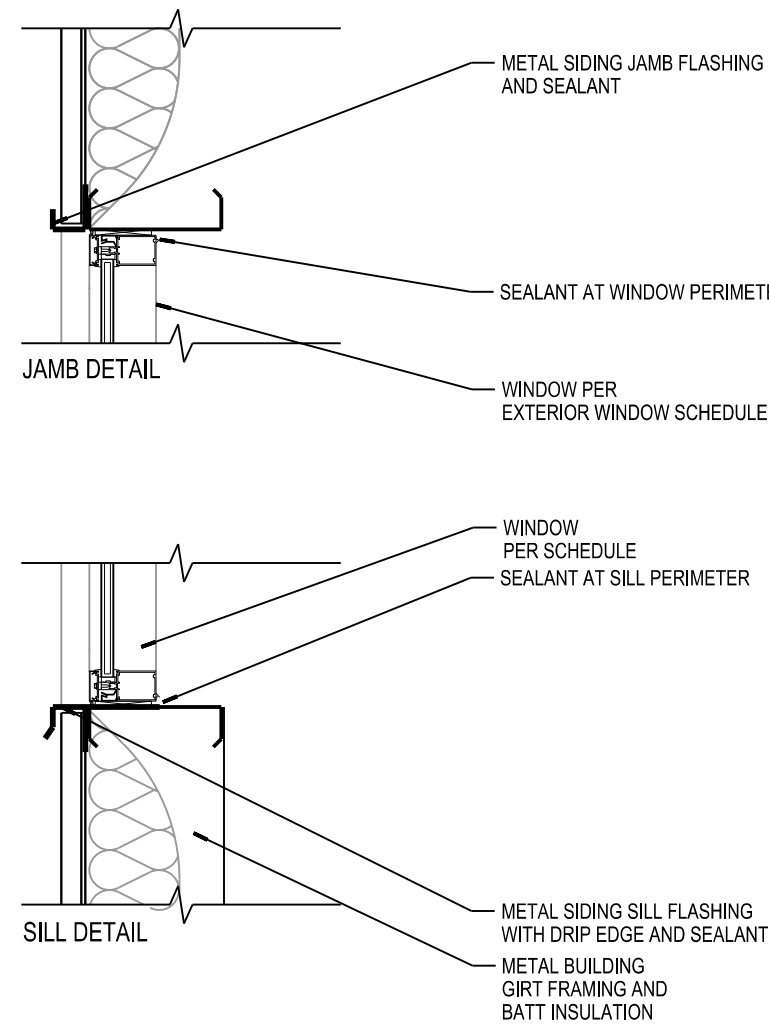
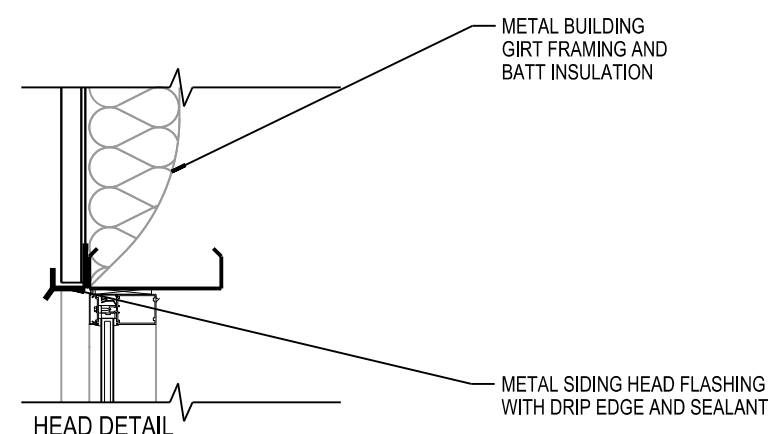
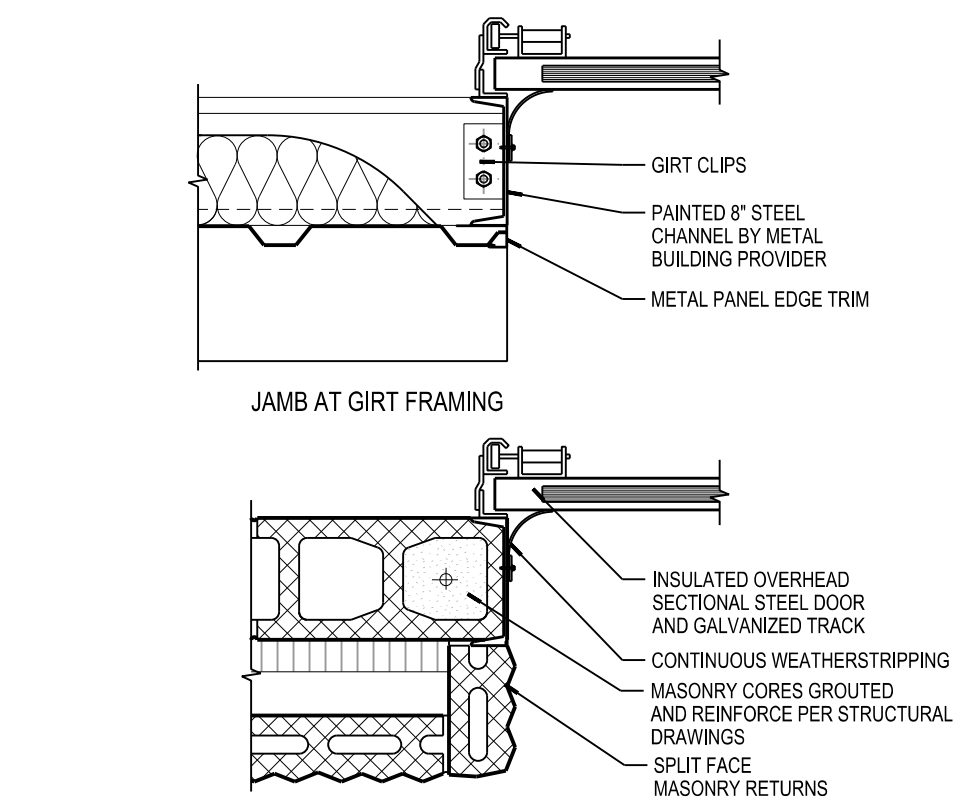
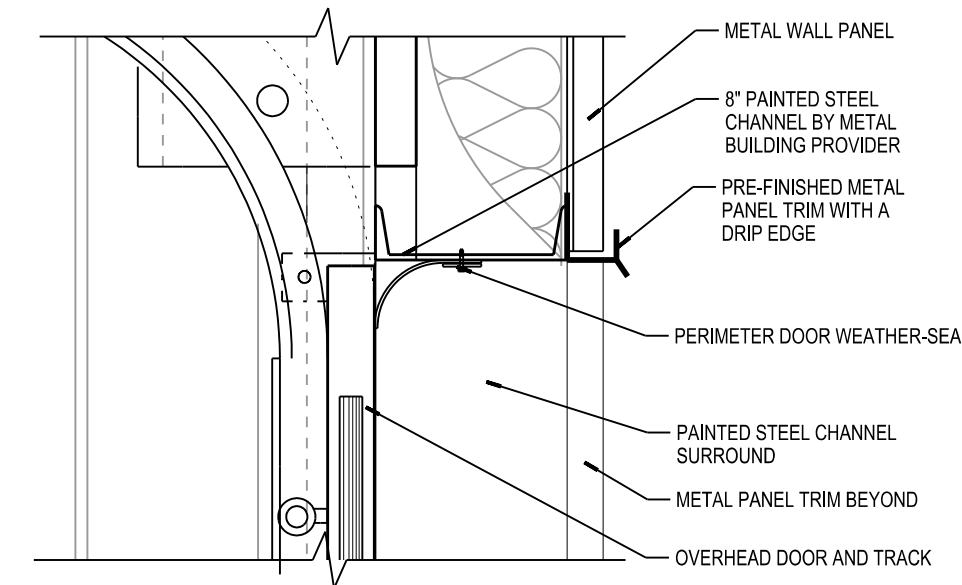
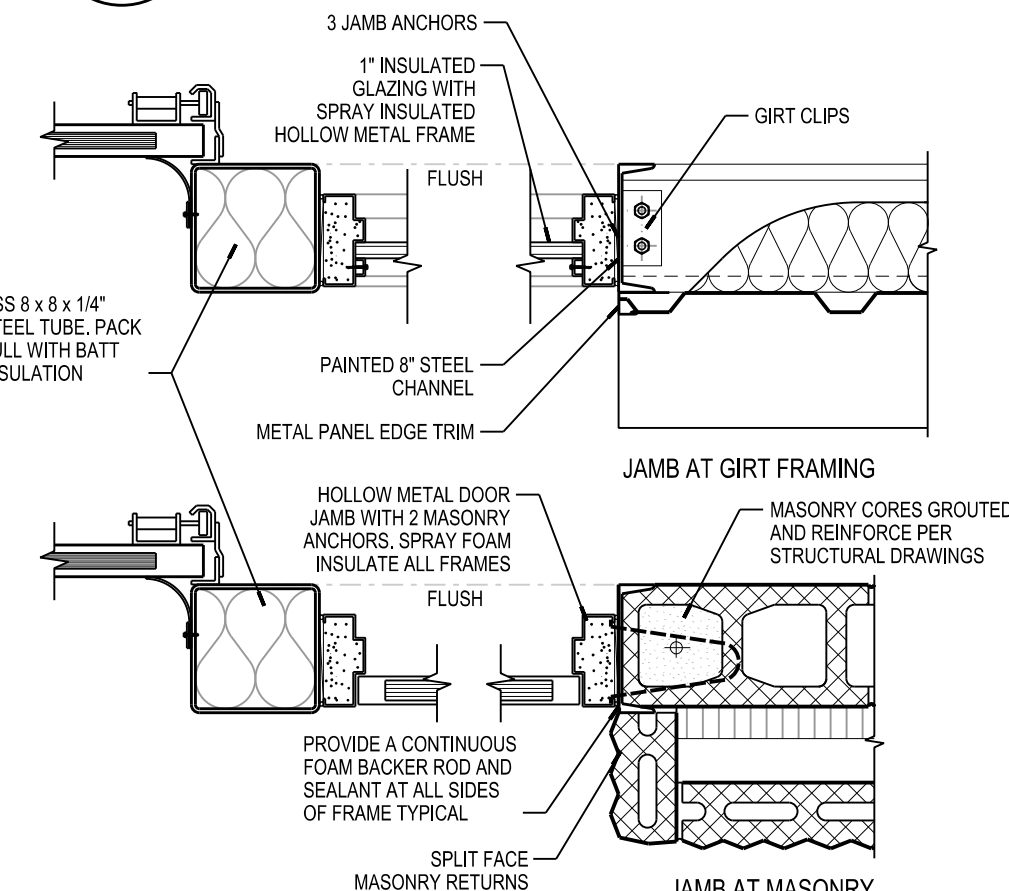
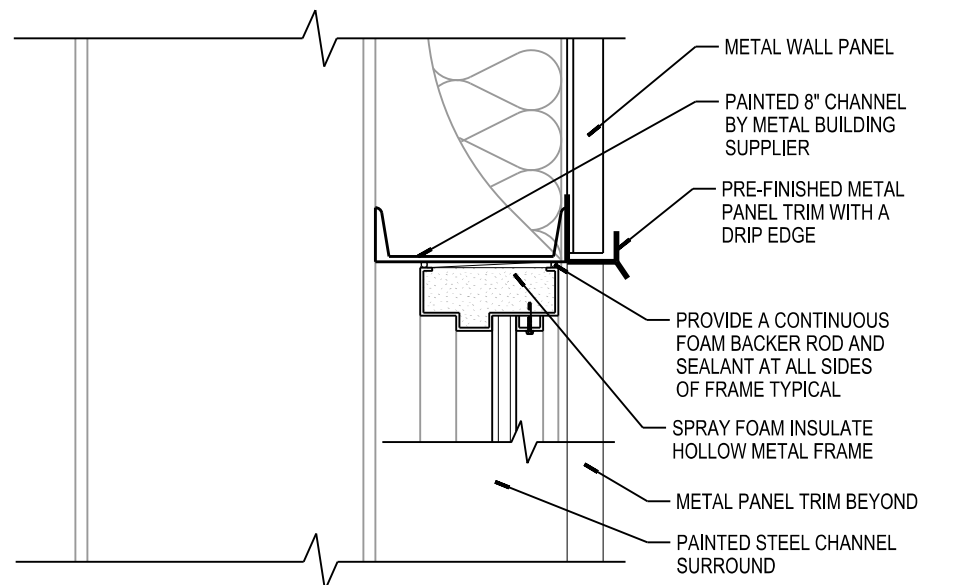
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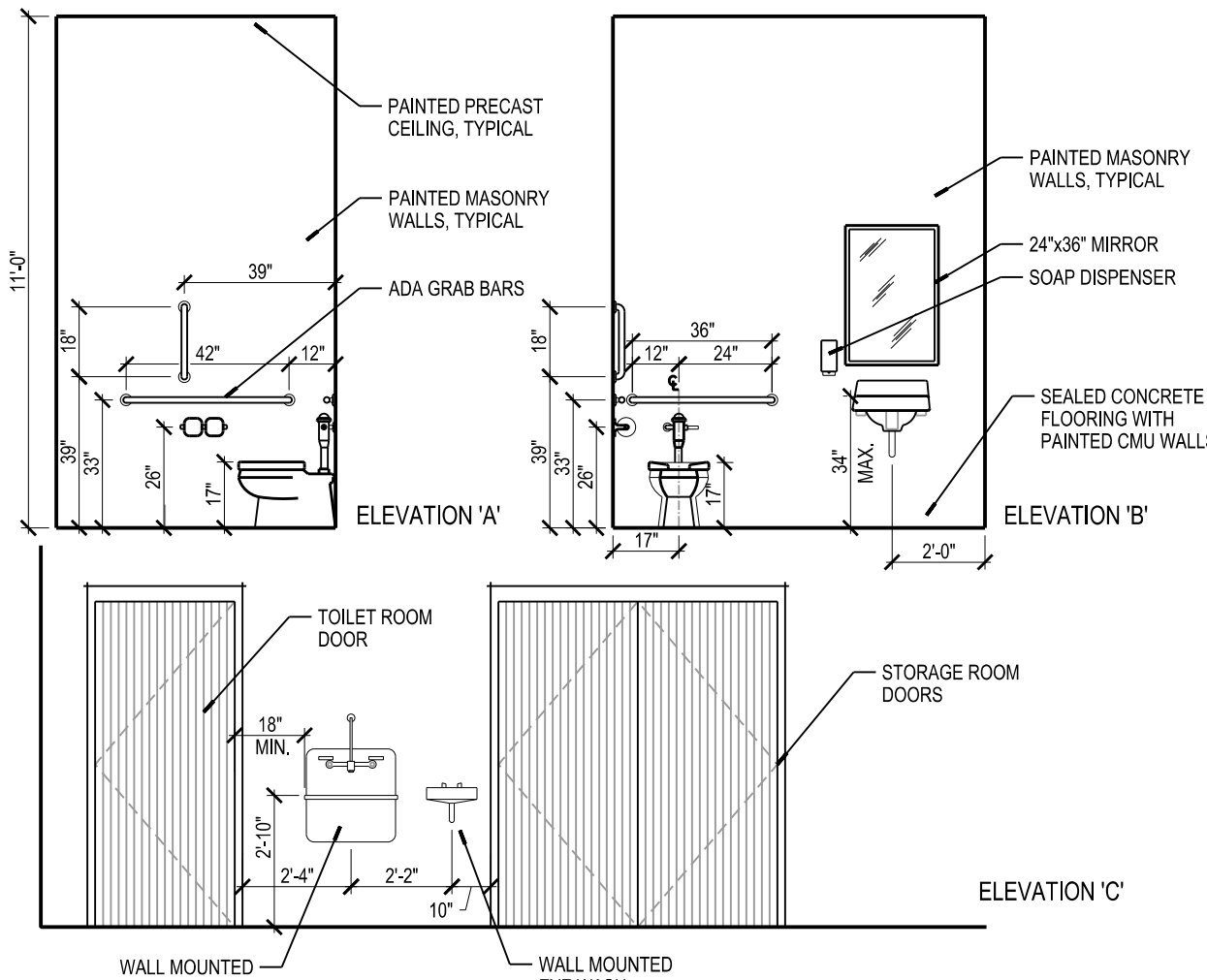


ROOM FINISH SCHEDULE						
NO.	ROOM NAME	FLOOR	BASE	WALLS	CEILING	NOTES
LEGEND						
	ENTIRE ROOM					
	NORTH					
	SOUTH					
	EAST					
	WEST					
	SEALED CONCRETE					
	NONE					
	NONE					
	PAINTED EXPOSED STRUCTURE					
	PAINTED MASONRY					
	PAINTED EXPOSED STRUCTURE					
	PAINTED PRECAST PLANK					
	PAINTED PRECAST PLANK - Alternate No.					

48150 SOUTH POINT ROAD PUBLIC WORKS STORAGE BUILDING

101	VEHICLE AND EQUIPMENT STORAGE					
102	WASH AREA					
103	TOILET ROOM					
104	UTILITY/STORAGE ROOM					
201	MEZZANINE					

DOOR SCHEDULE									
	DOOR SIZE						DETAILS		REMARKS
DOOR NUMBER			DOOR TYPE	FRAME TYPE	LABEL	HARDWARE SET #			
48150 SOUTH POINT ROAD PUBLIC WORKS STORAGE BUILDING									
101A	3'-0" x 7'-0"	A	1			3	14/A301	19/A301	INSULATED DOOR, MIN. R-VALUE 10.0
101B	16'-0" x 16'-0"	B	3				18/A301	17 & 19/301	INSULATED DOOR, MIN. R-VALUE 17.0
101C	16'-0" x 16'-0"	B	3				18/A301	17 & 19/301	INSULATED DOOR, MIN. R-VALUE 17.0
101D	3'-0" x 7'-0"	A	1			3	14/A301	19/A301	INSULATED DOOR, MIN. R-VALUE 10.0
103	3'-0" x 7'-0"	A	2			2	09/A301	09/A301	
104	(2) 3'-0" x 7'-0"	A	4			1	09/A301	09/A301	



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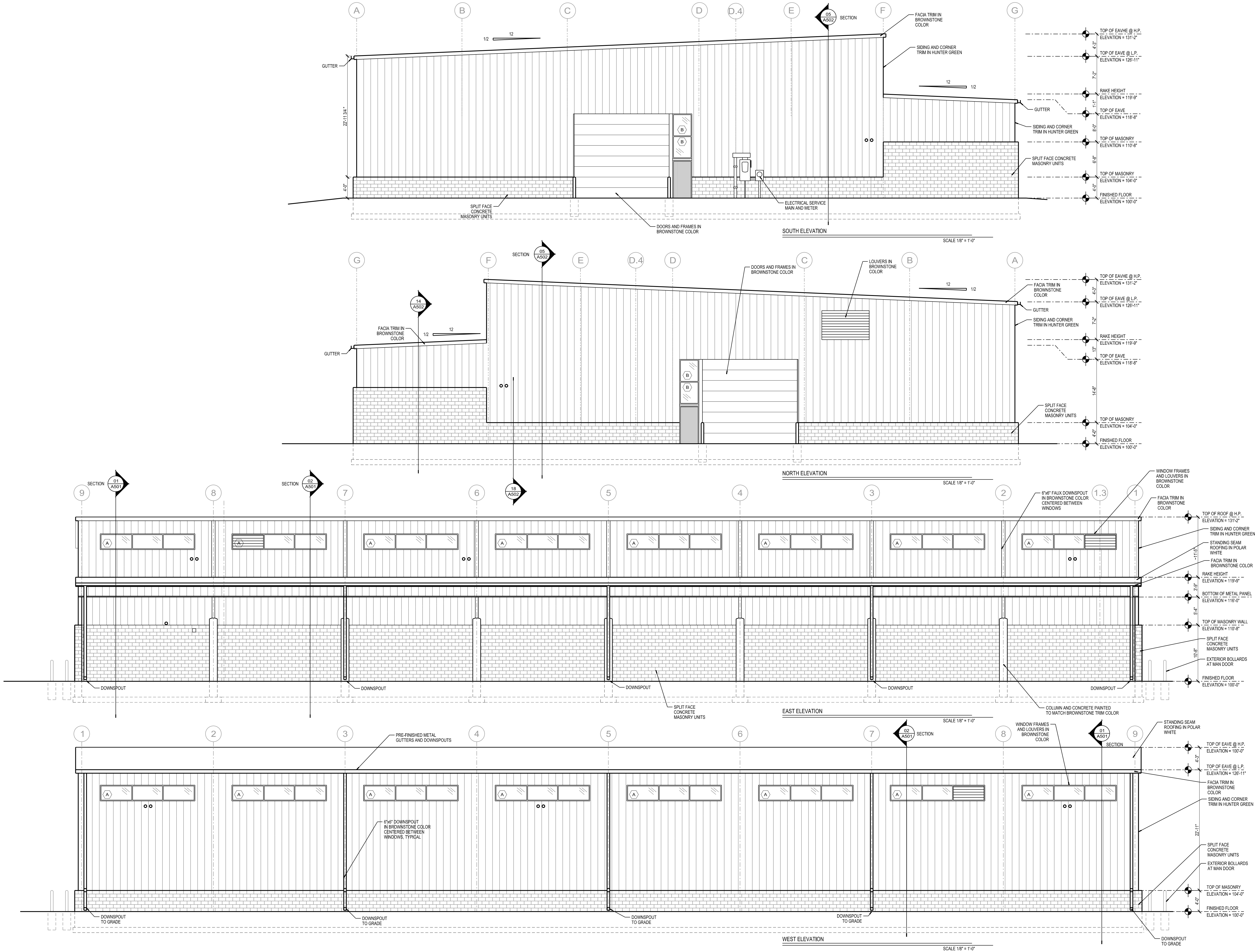
**SOUTH POINT ROAD
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PROJECT NUMBER 48150	APPROVED BY JLH	REVIEWED BY JCT	DRAWN BY BTW
SCHEDULES AND DETAILS			
6/14/2013 1:46:53 PM			

A301

SCALE: 1/8"=1'-0"
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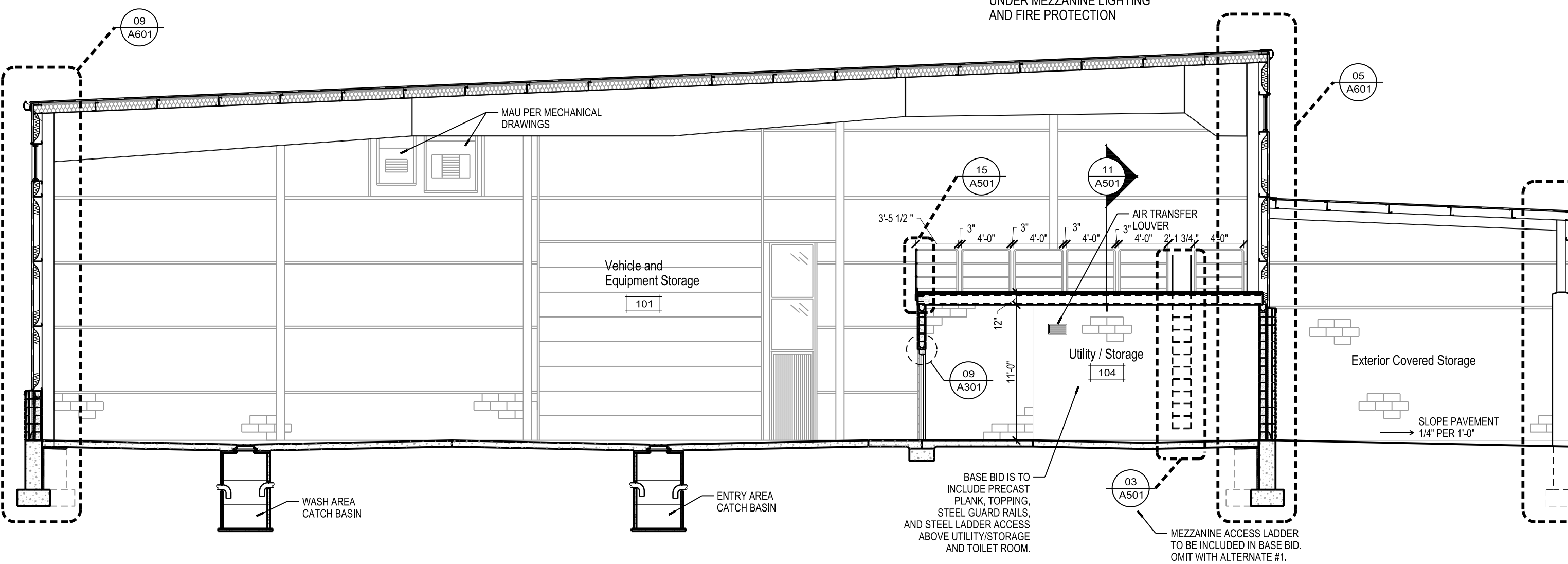
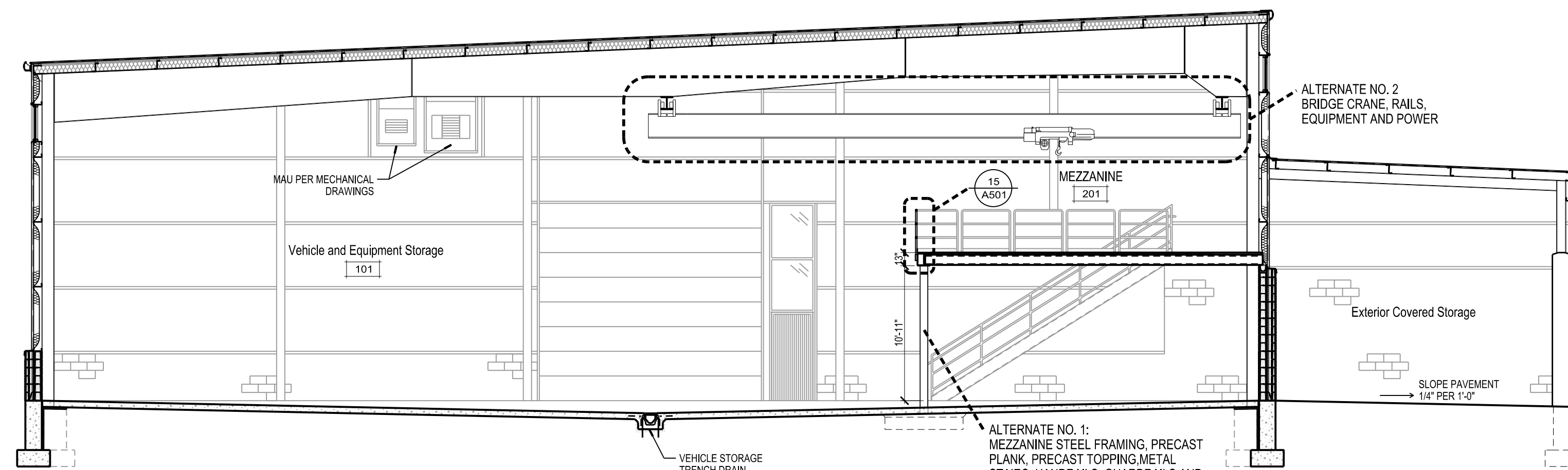
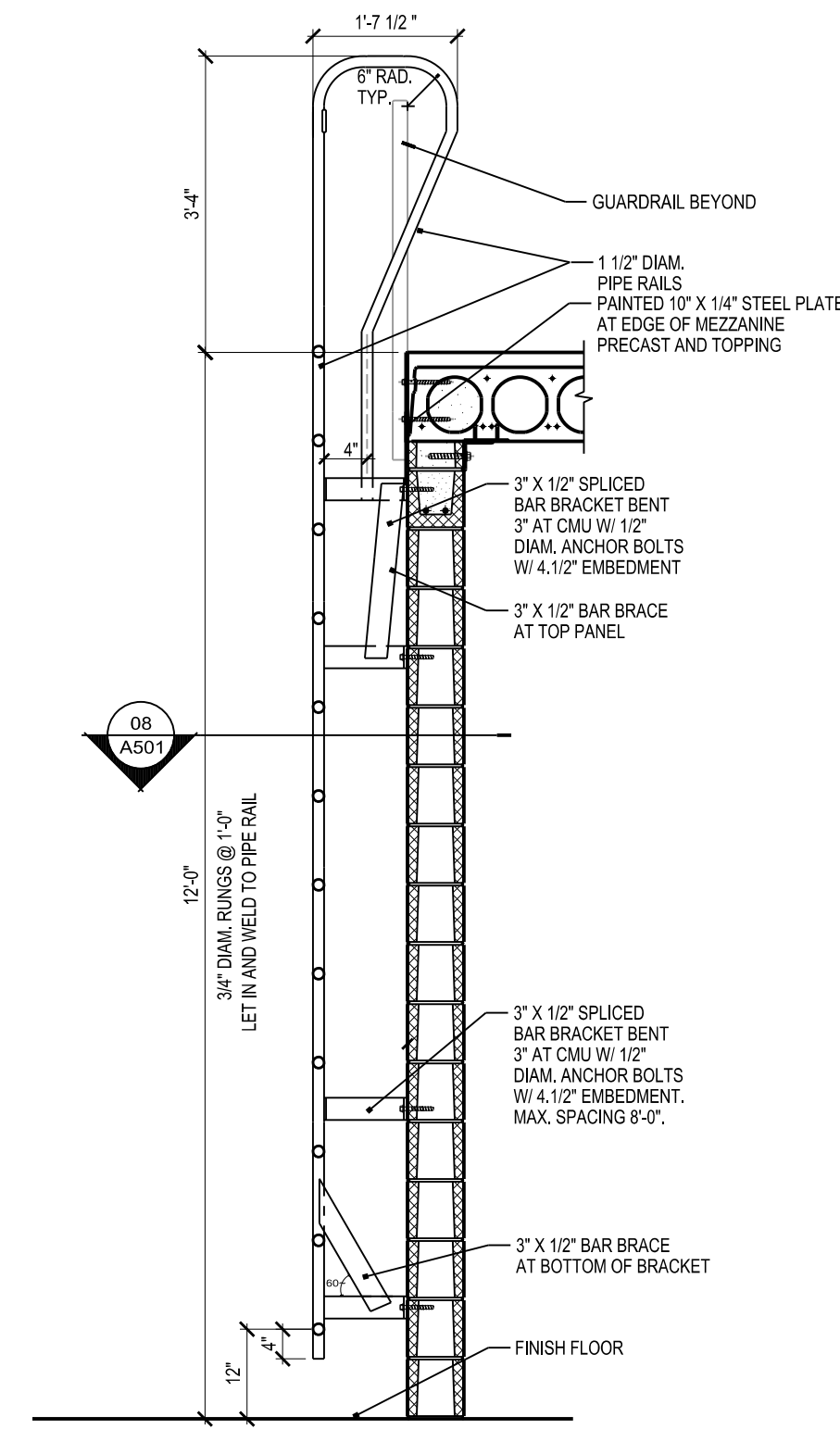
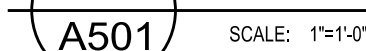
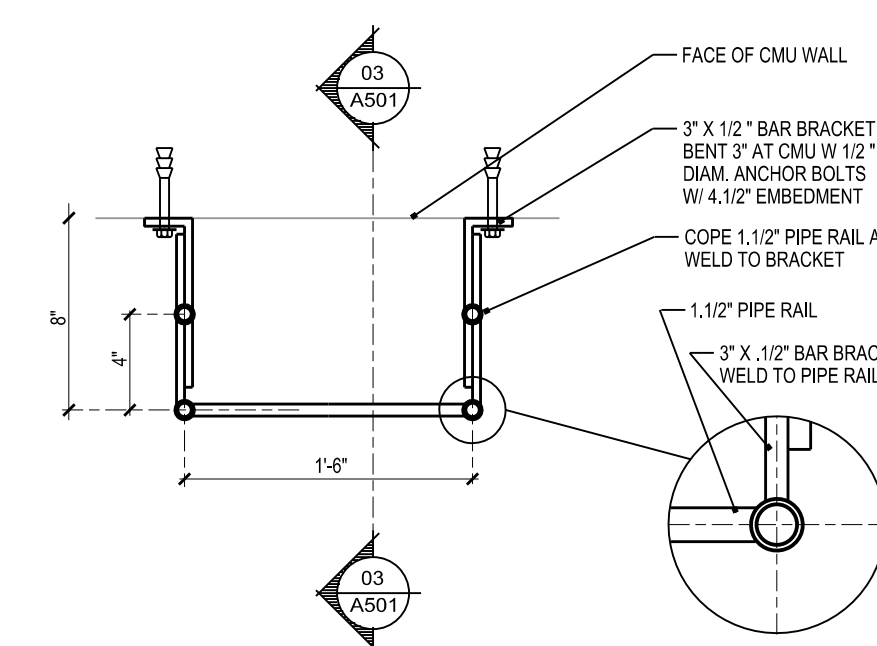
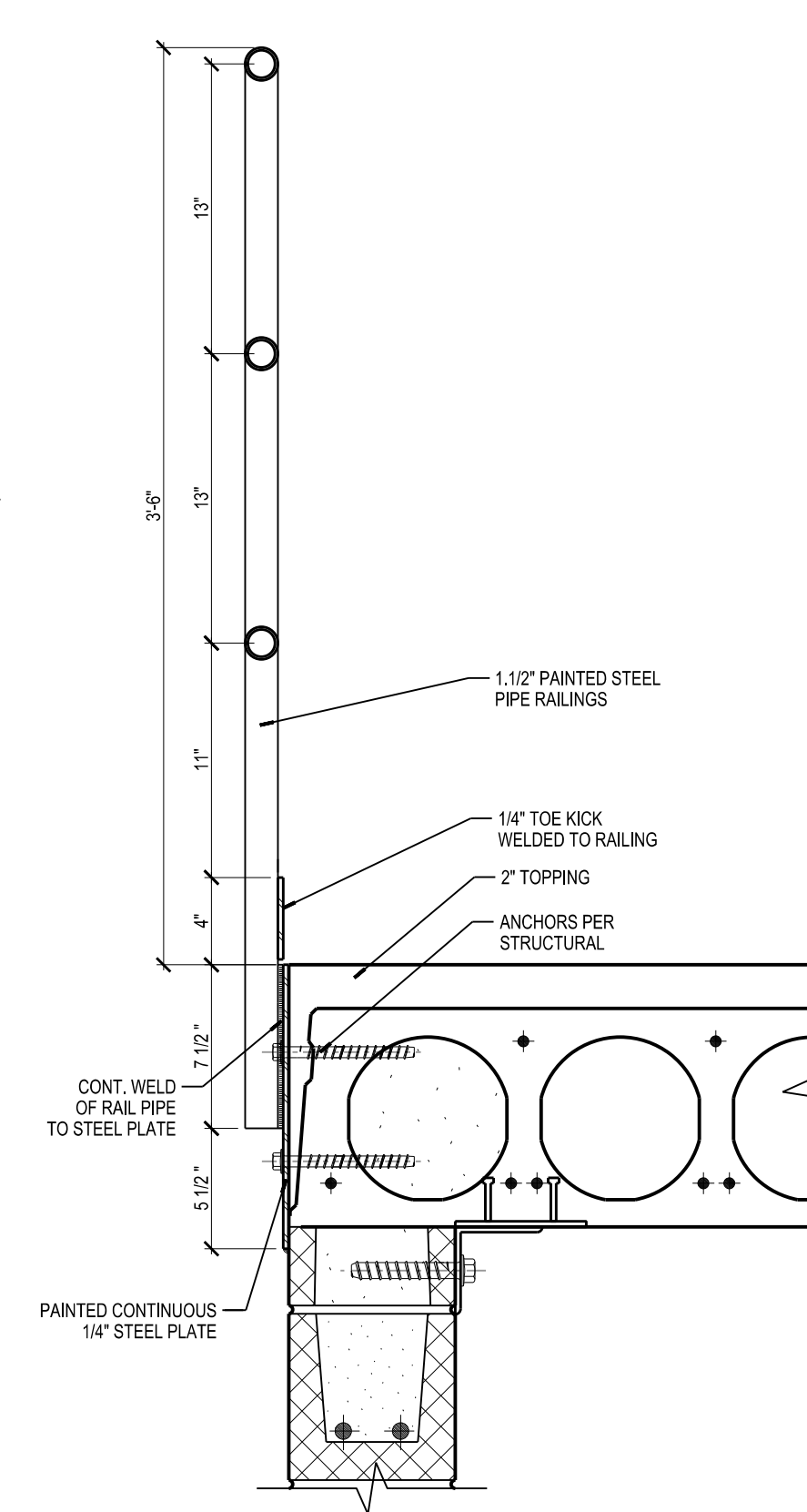
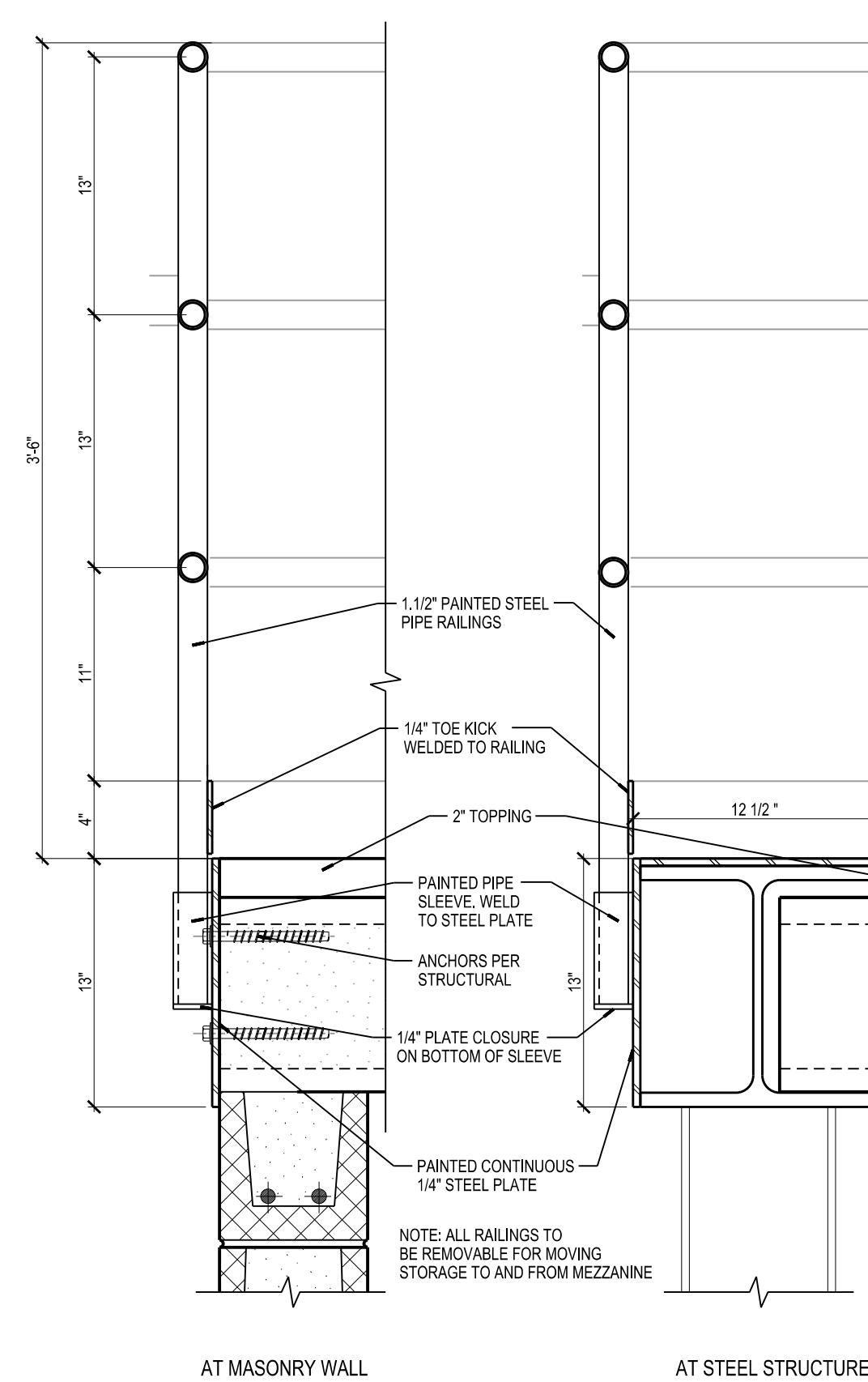
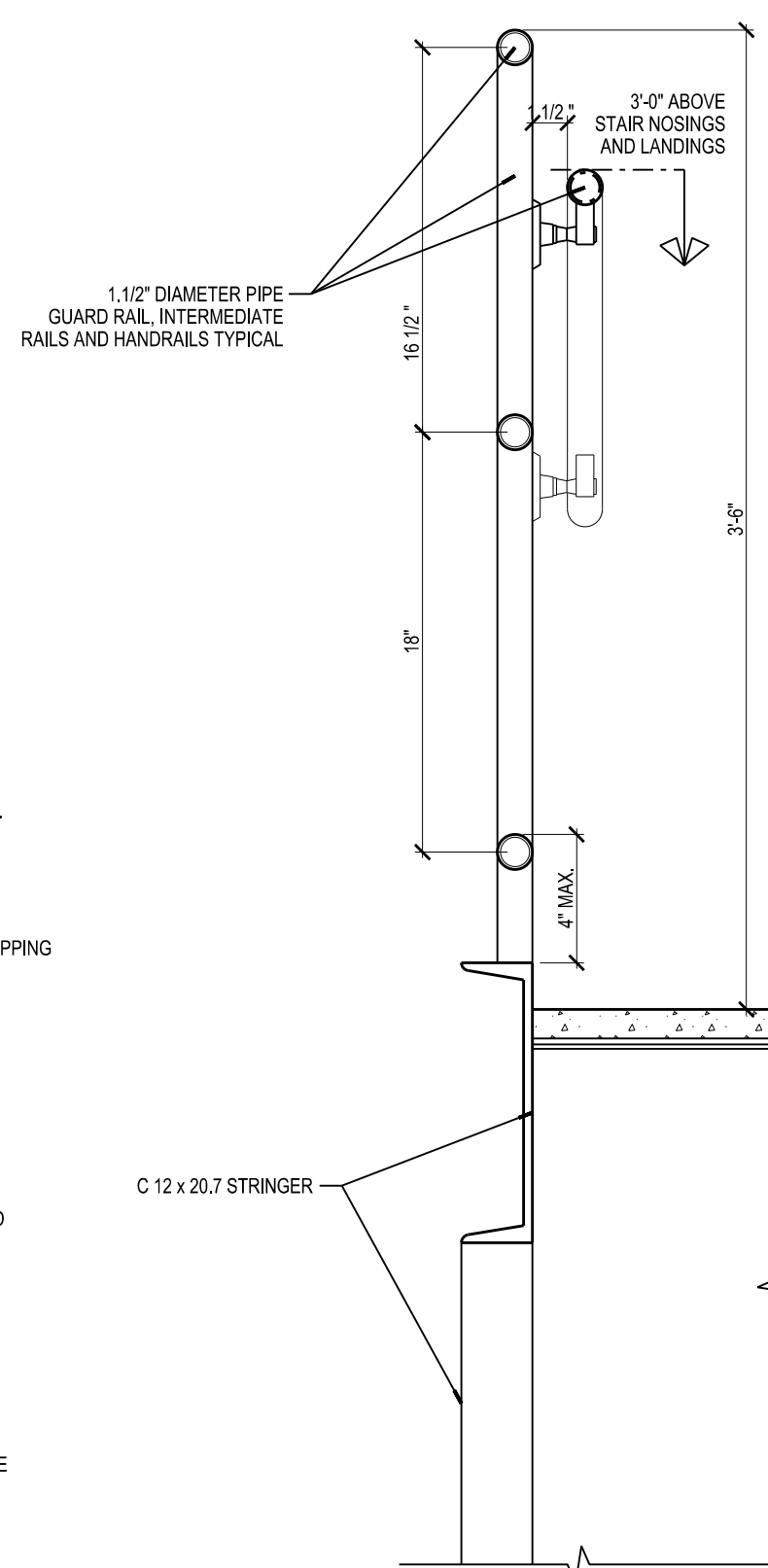
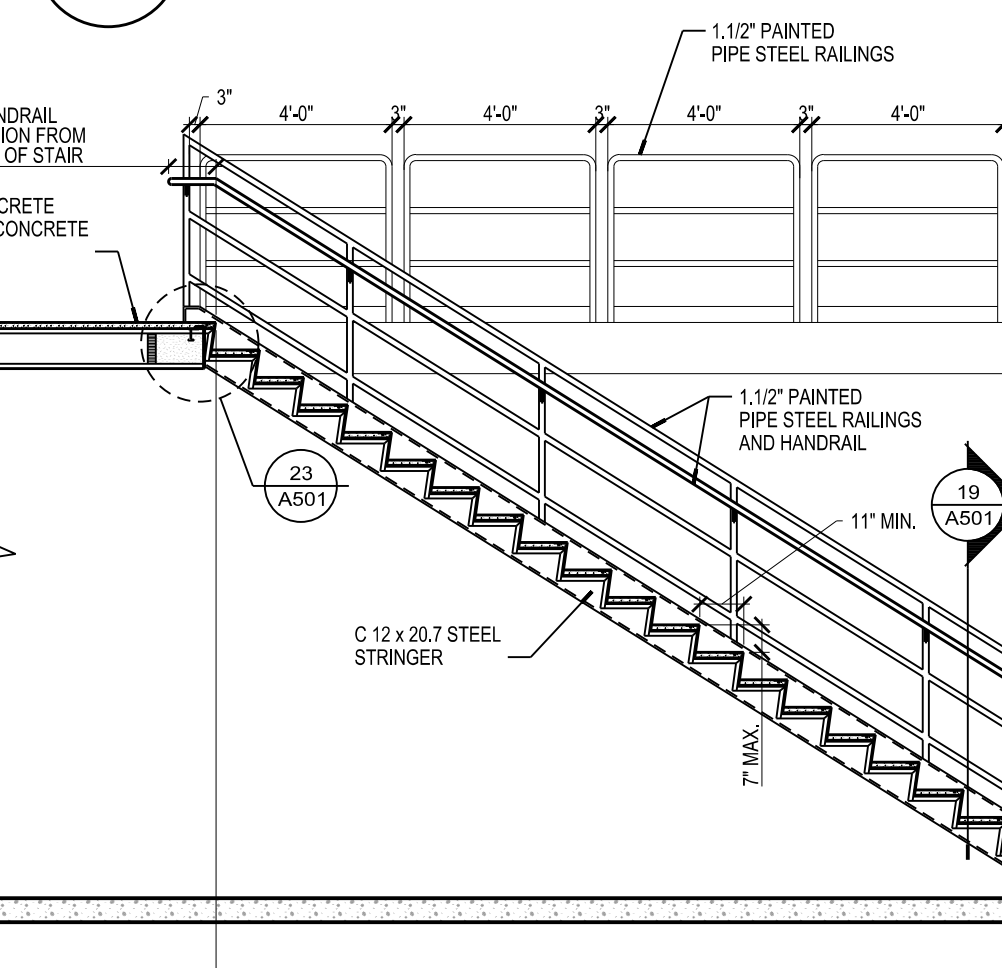
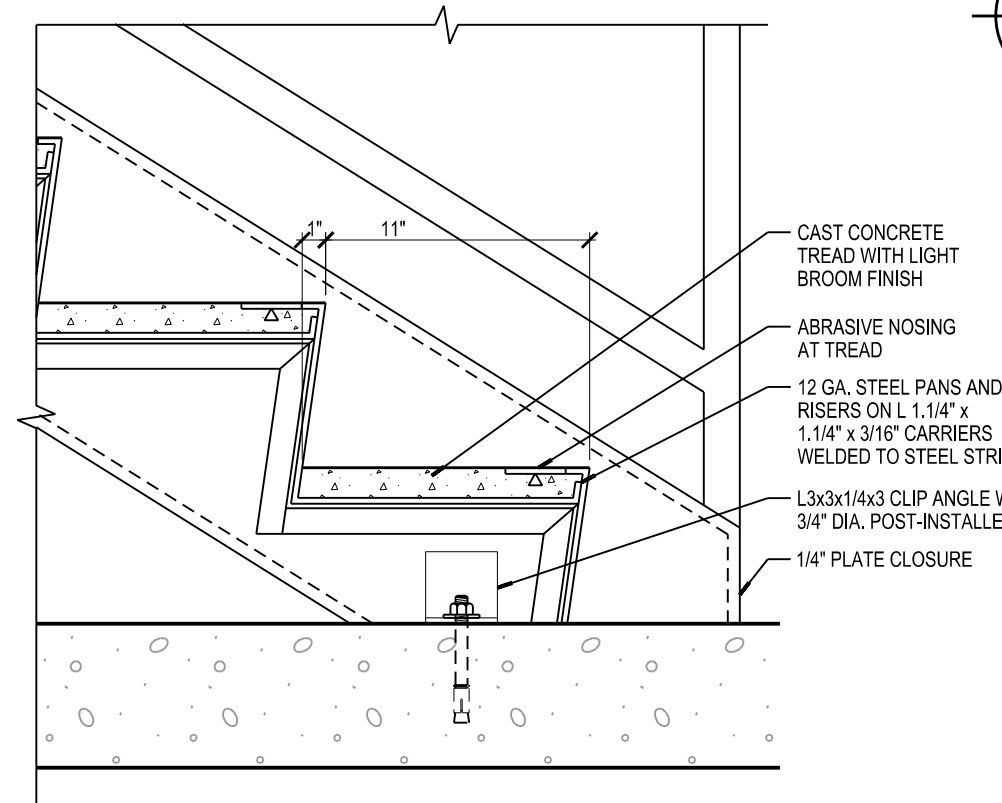
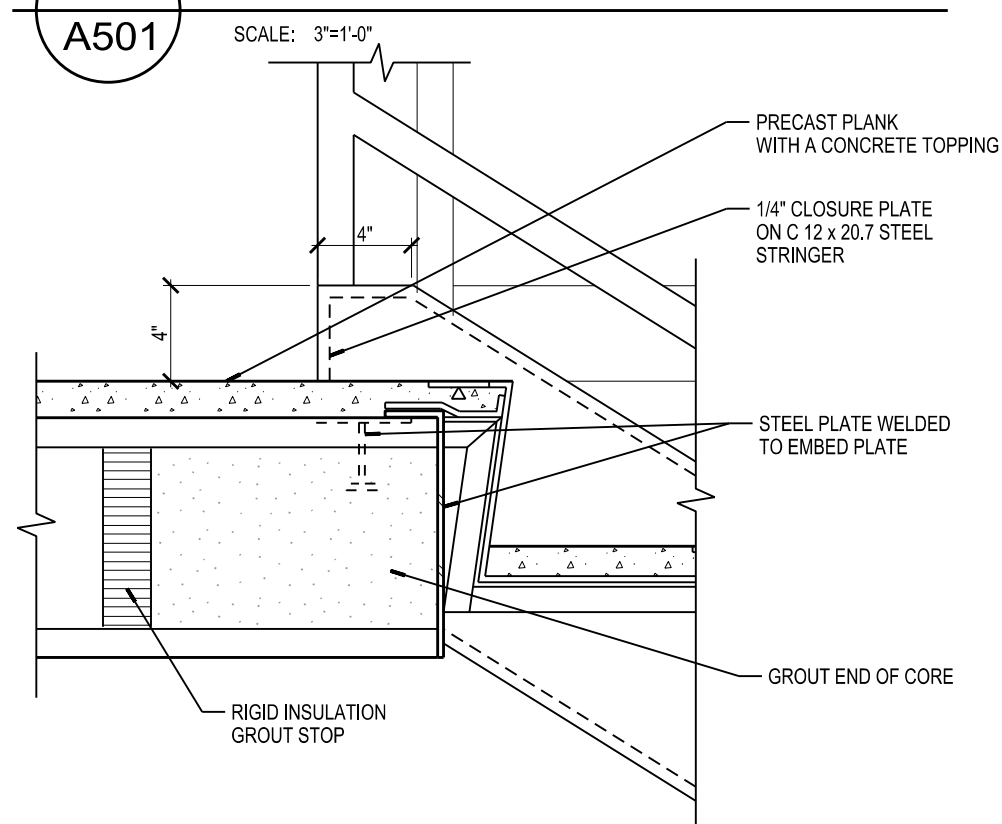
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SOUTH POINT ROAD
PUBLIC WORKS STORAGE BUILDING
CITY OF MADISON
MADISON, WISCONSIN

PROJECT NUMBER		APPROVED BY		REVIEWED BY		DRAWN BY	
48150		JLH		JCT		JLH	
6/14/2013		1:45:26 PM					

A401



SCALE: 1/8"=1'-0"
PLOTTED BY: BradW

ORIGINAL SIZE = 24" x 36"

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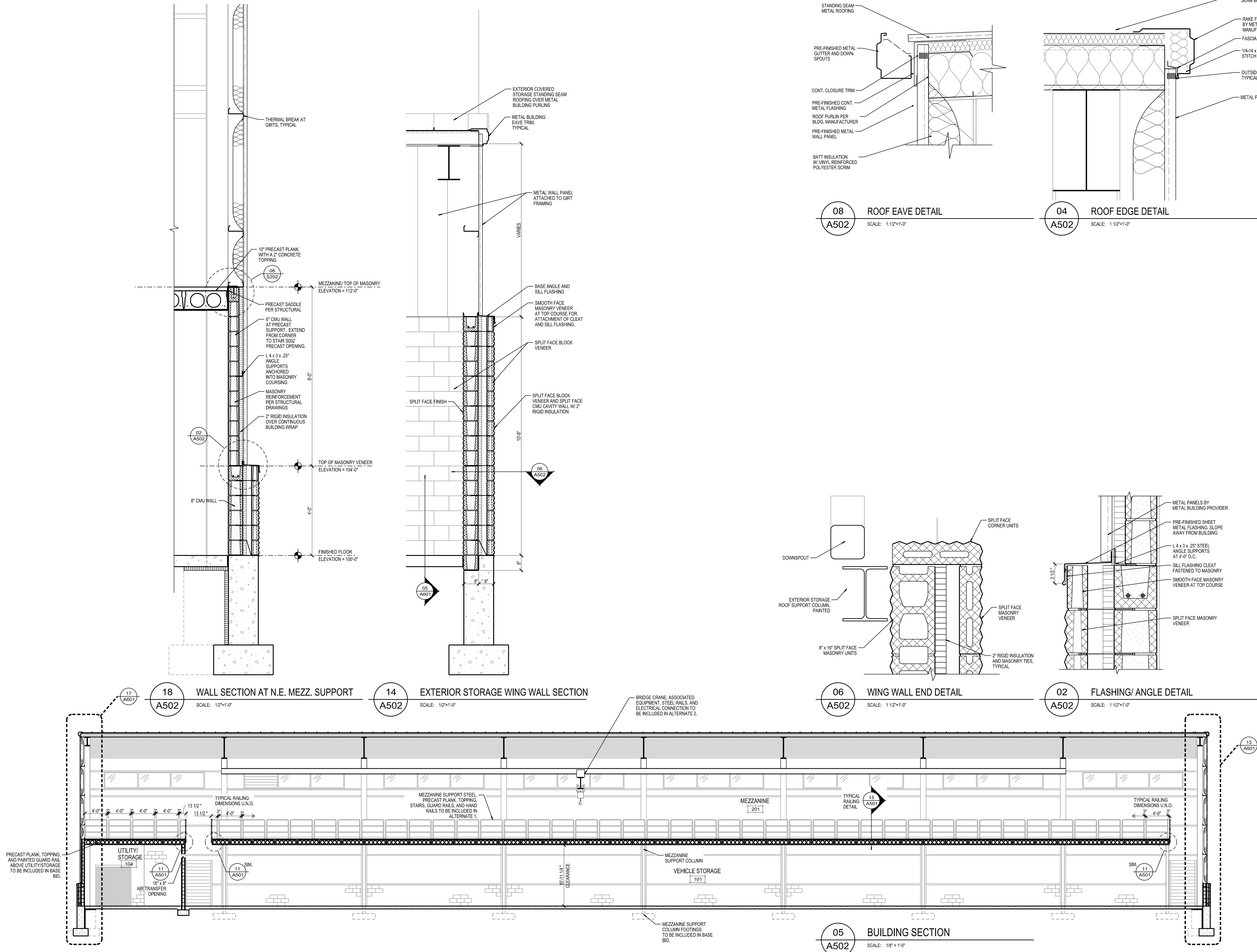
PROJECT NUMBER	48150
APPROVED BY	JLH
REVIEWED BY	JCT
DRAWN BY	BTW

BUILDING SECTIONS

A501

SCALE: 1/8"=1'-0"
PLOTTED BY: BAW

ORIGINAL SIZE = 24" x 36"
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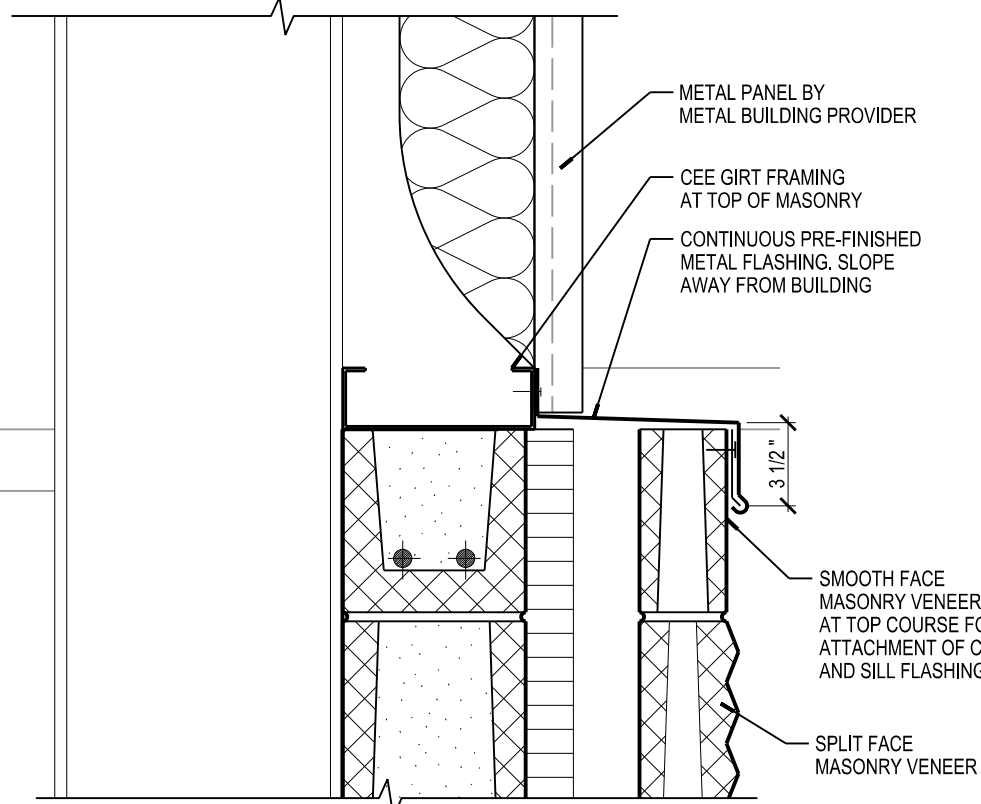
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CITY OF MADISON
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PROJECT NUMBER
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JLH
REVIEWED BY
JCT
DRAWN BY
BTW
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BUILDING SECTION AND
DETAILS

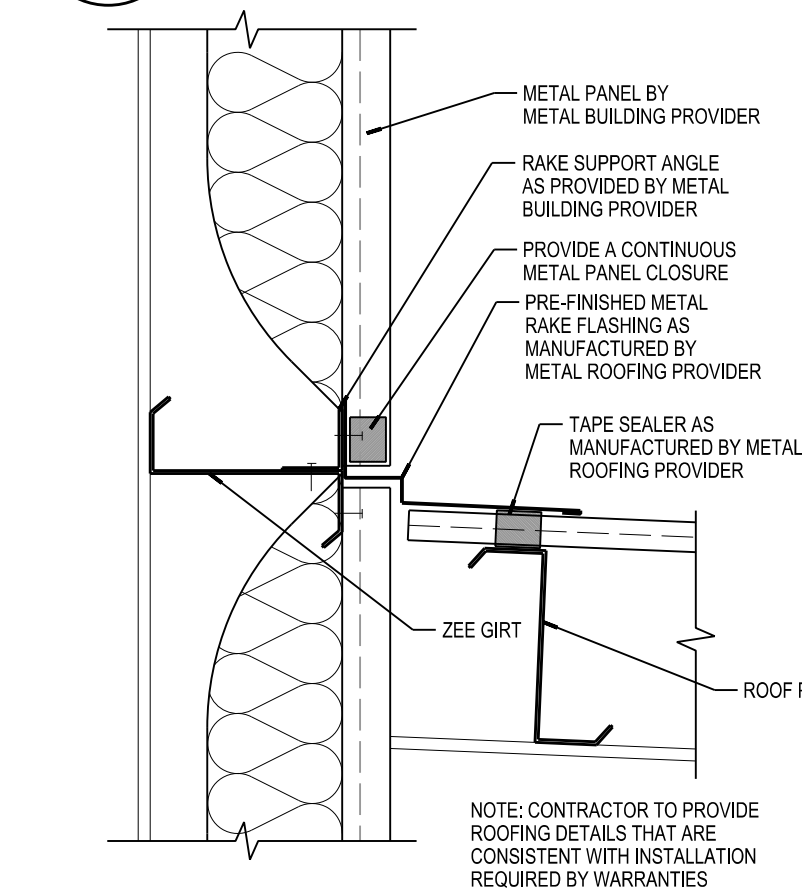
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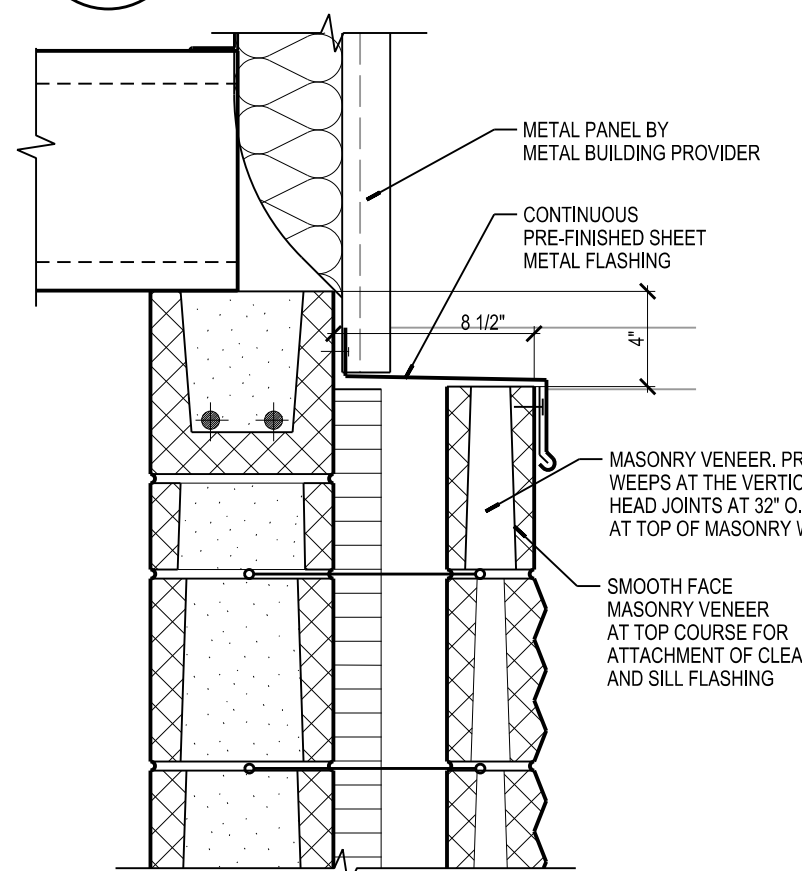
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SCALE: 1/2"=1'-0"
PLOTTED BY: BAW



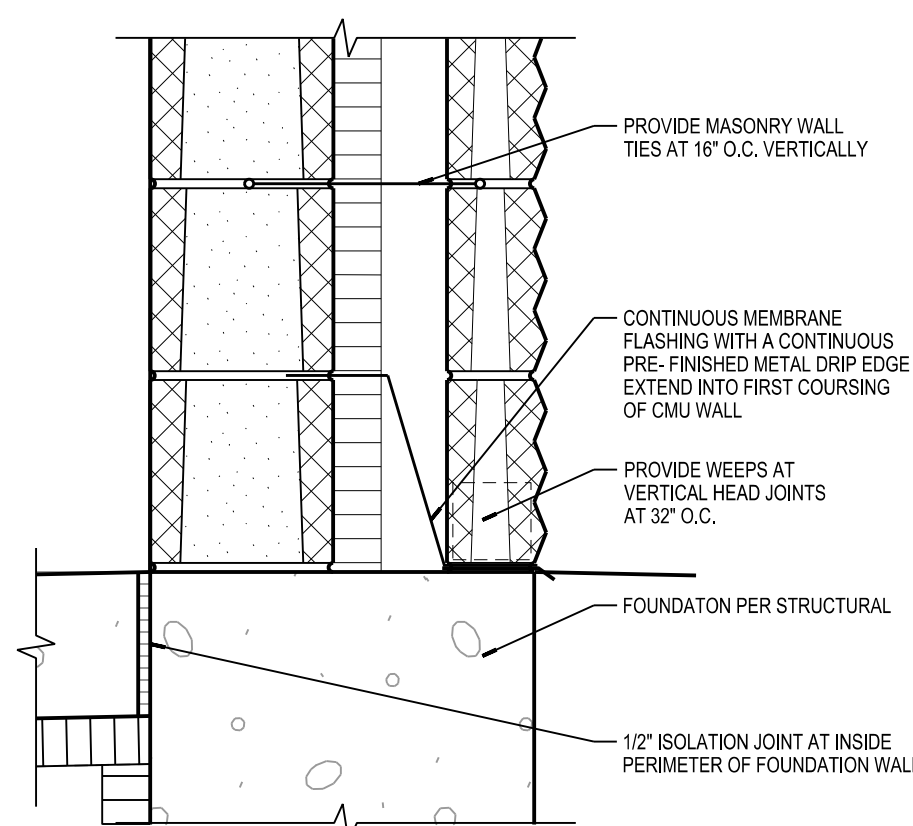
24 FLASHING DETAIL
A601
SCALE: 1 1/2"=1'-0"



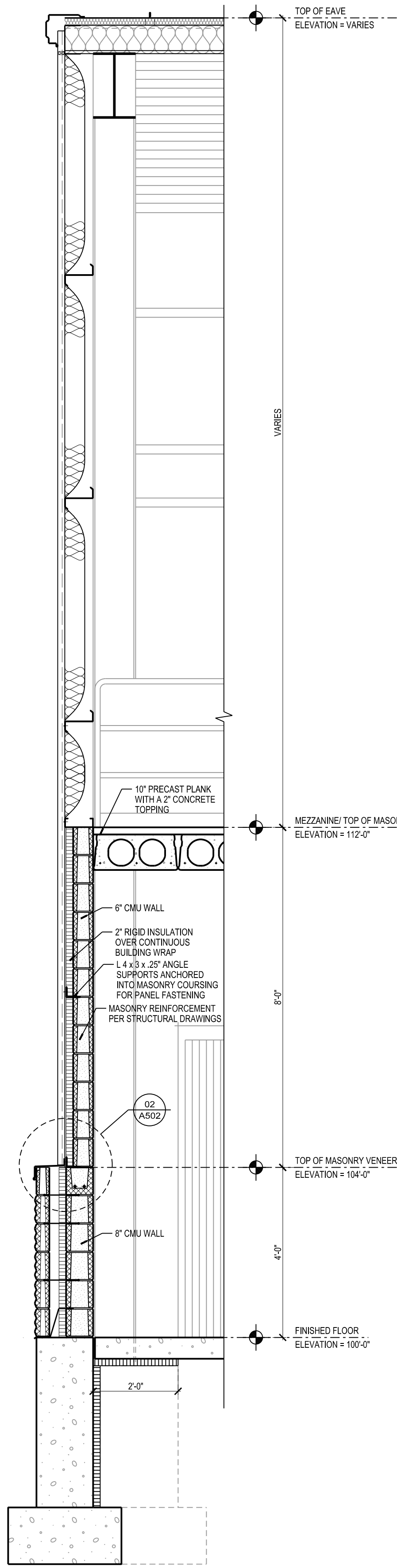
23 RAKE FLASHING DETAIL
A601
SCALE: 1 1/2"=1'-0"



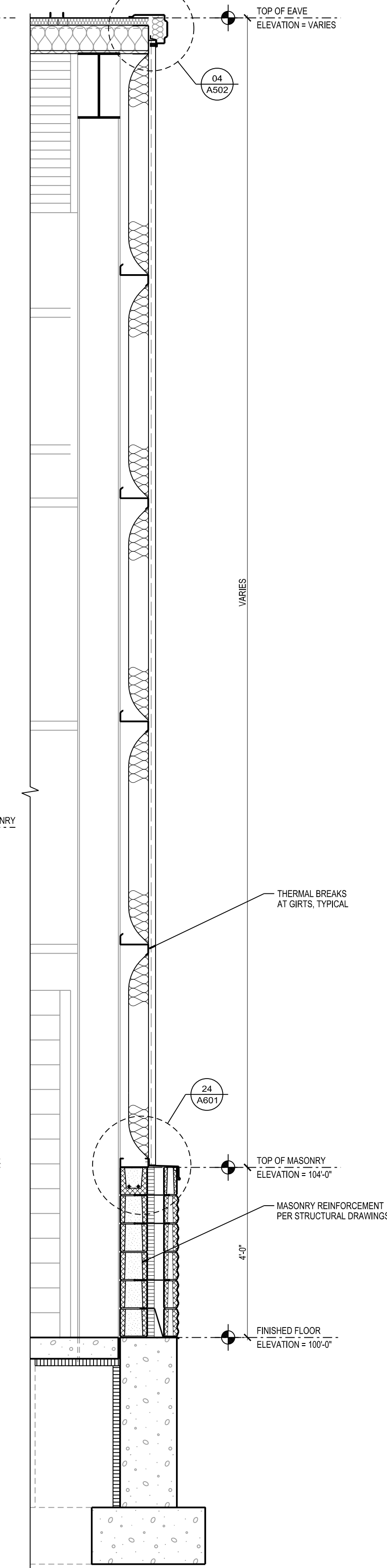
22 TOP OF MASONRY WALL DETAIL
A601
SCALE: 1 1/2"=1'-0"



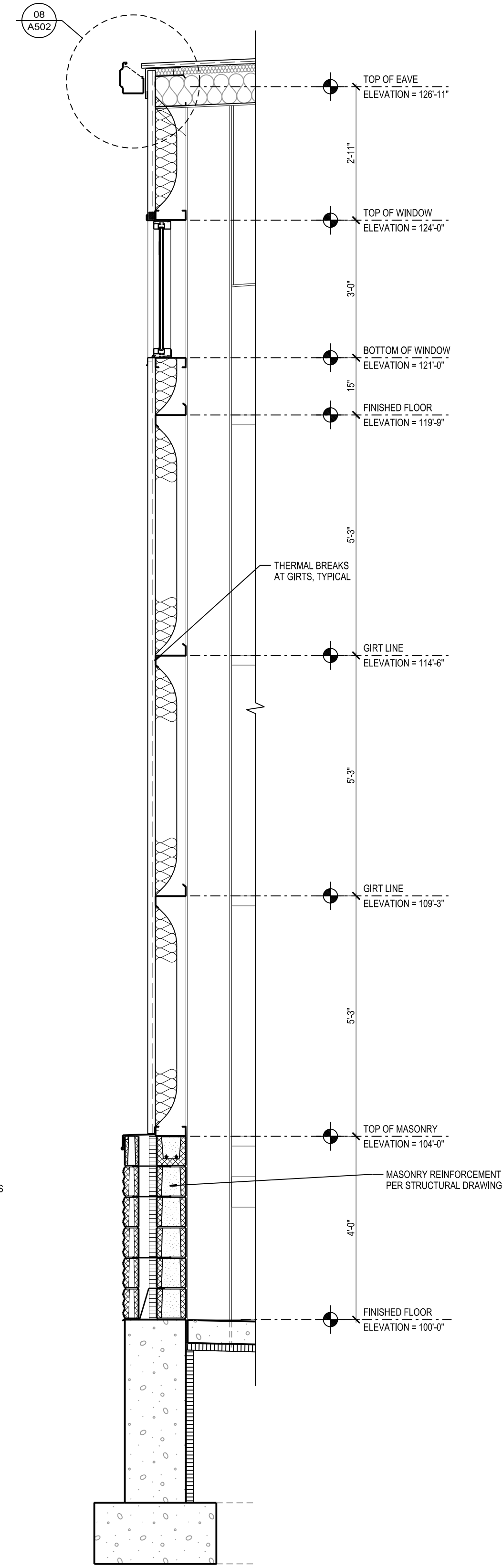
21 TYPICAL MASONRY BASE DETAIL
A601
SCALE: 1 1/2"=1'-0"



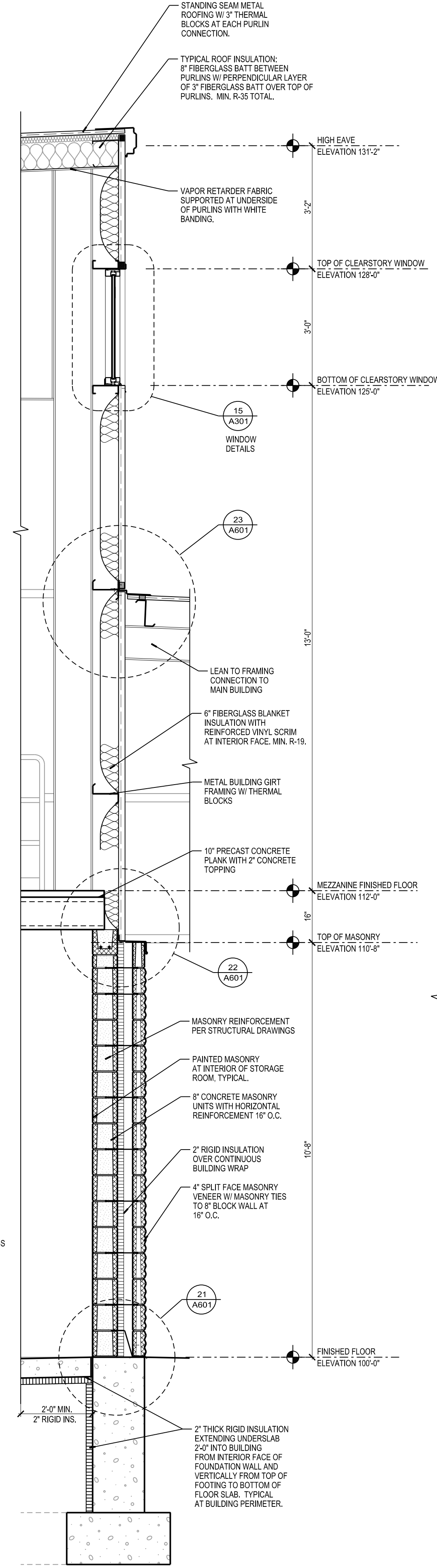
17 WALL SECTION AT UTILITY/STORAGE
A601
SCALE: 1/2"=1'-0"



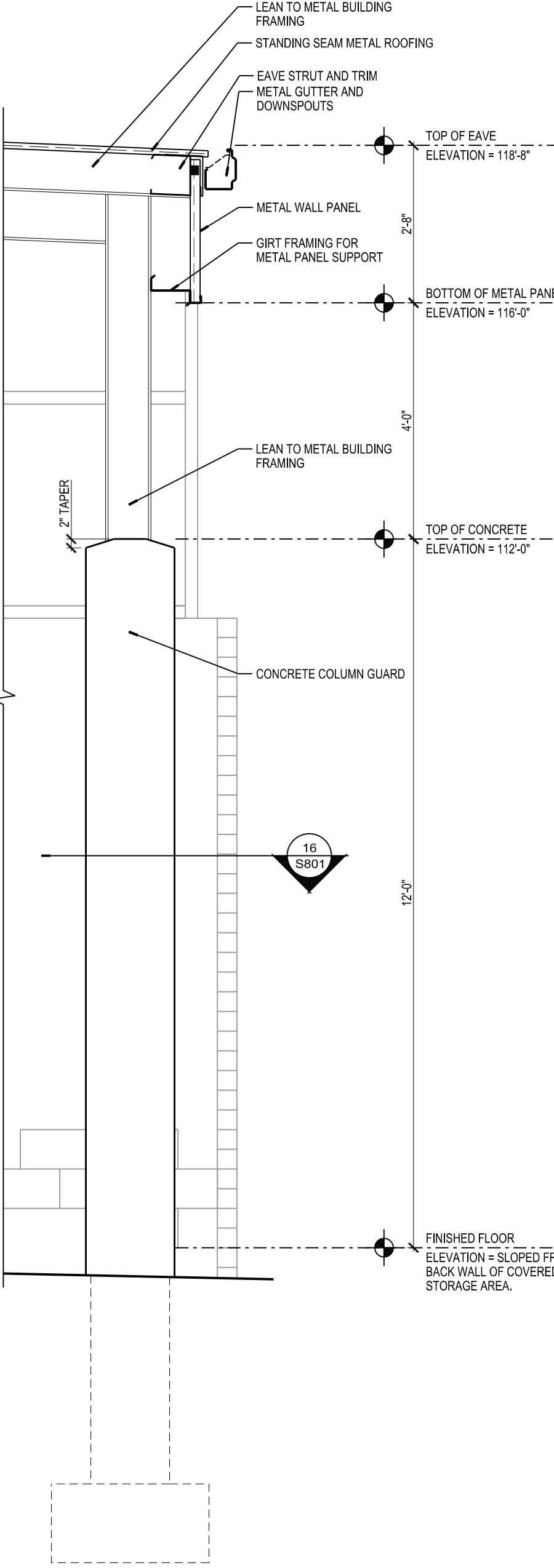
13 WALL SECTION AT END WALL
A601
SCALE: 1/2"=1'-0"



09 WALL SECTION
A601
SCALE: 1/2"=1'-0"



05 WALL SECTION
A601
SCALE: 1/2"=1'-0"



01 WALL SECTION AT LEAN TO EAVE
A601
SCALE: 1/2"=1'-0"

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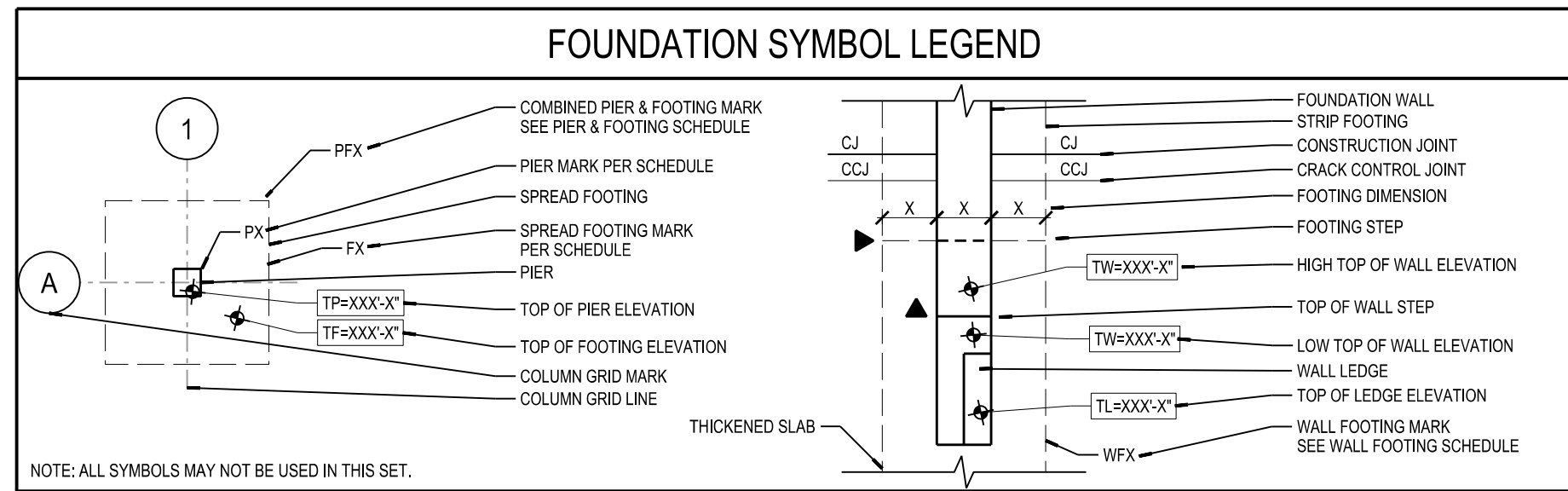
PROJECT NUMBER
48150
APPROVED BY
JLH
REVIEWED BY
JCT
DRAWN BY
BTW
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WALL SECTIONS
AND DETAILS

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A601



PRE-ENGINEERED COLUMN ANCHOR SCHEDULE									
MARK	NUMBER OF LOCATIONS	ANCHORS PER LOCATION	TOTAL NUMBER OF ANCHORS	ANCHOR DIAMETER (IN)	PROJECTION (IN)	EMBEDMENT LENGTH (IN)	BOTTOM NUT EXTENSION (IN)	TOTAL ANCHOR LENGTH (IN)	NOTES
A 1	35	4	140	0.75	3	12	3	18	
TOTALS:	35		140						

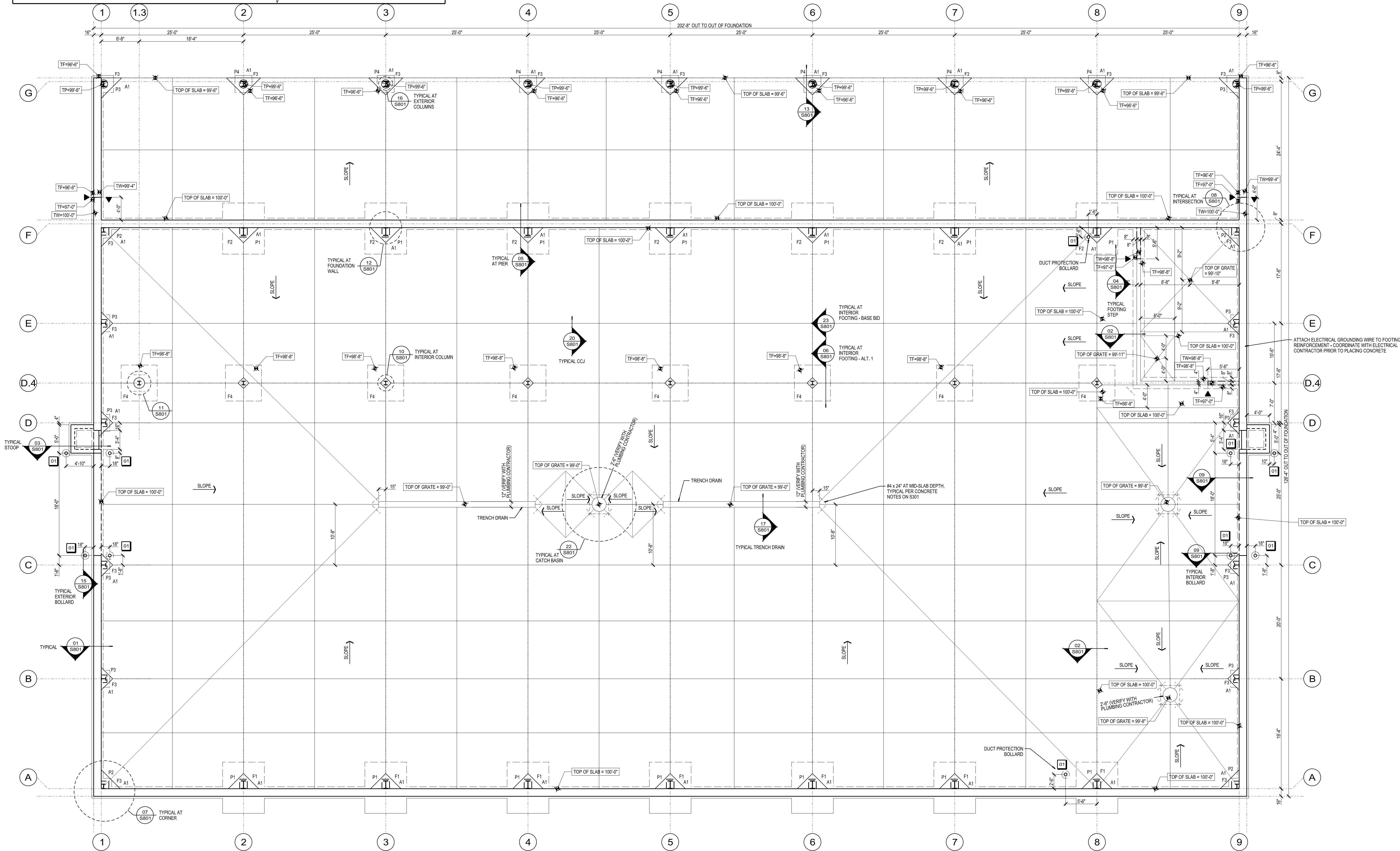
- NOTES:**
- CONFORM TO ASTM F1554 FOR ANCHOR RODS, ASTM A563 FOR NUTS, AND ASTM F436 FOR WASHERS
 - (0) 5/8" ANCHOR RODS WITH (2) NUTS AND (2) WASHERS EACH
 - (140) 3/4" ANCHOR RODS WITH (2) NUTS AND (2) WASHERS EACH
 - (0) 1" ANCHOR RODS WITH (2) NUTS AND (2) WASHERS EACH

KEY NOTES

- 01** STEEL BOLLARD PER DETAIL 14/SB01 & 15/SB01.

FOUNDATION AND SLAB PLAN NOTES

- TYPICAL FLOOR = 8" SLAB ON GRADE REINFORCED WITH NOVOMESH 950 REINFORCEMENT @ 5 LBS/CY UNLESS NOTED OTHERWISE
- FINISHED FLOOR ELEVATION = 100'-0" UNLESS NOTED OTHERWISE
- TOP OF FOUNDATION WALL ELEVATION = 100'-0" UNLESS NOTED OTHERWISE
- TOP OF PIERS SHALL BE 8" BELOW FINISHED FLOOR UNLESS NOTED OTHERWISE
- FOUNDATION WALLS SHALL BE 1'-4" THICK UNLESS NOTED OTHERWISE
- TOP OF EXTERIOR FOOTING ELEVATION = 3'-0" BELOW FINISHED FLOOR UNLESS NOTED OTHERWISE
- TOP OF INTERIOR FOOTING ELEVATION = 2'-0" BELOW FINISHED FLOOR UNLESS NOTED OTHERWISE
- WALL FOOTINGS FOR 1'-4" THICK FOUNDATION WALLS SHALL BE 2'-0" x 1'-0" x CONTINUOUS STRIPS REINFORCED WITH (3) #4 BARS UNLESS NOTED OTHERWISE
- FOOTINGS WITHOUT FOUNDATION WALLS SHALL BE 2'-0" x 1'-0" x CONTINUOUS STRIPS REINFORCED WITH (3) #4 BARS UNLESS NOTED OTHERWISE
- WALL FOOTINGS 8" FOUNDATION WALLS SHALL BE 2'-0" x 1'-0" x CONTINUOUS STRIPS REINFORCED WITH (3) #4 BARS UNLESS NOTED OTHERWISE
- FOUNDATION WALLS SHALL BE INSULATED WITH 2" RIGID INSULATION AGAINST INTERIOR FACE OF WALL. PROVIDE 2" HORIZONTAL RIGID INSULATION AT UNDERSIDE OF BUILDING SLAB PERIMETER, EXTENDING 2'-0" OFF OF INTERIOR FACE OF FOUNDATION WALL. SEE 05/A601.
- FOUNDATION WALL LEDGES SHALL END 4" WIDE UNLESS NOTED OTHERWISE
- SLAB JOINTS SHALL BE CRACK CONTROL JOINTS UNLESS NOTED OTHERWISE
- JOINT SEALANT SHALL BE USED AT ALL CRACK CONTROL AND CONSTRUCTION JOINTS IN SLAB - REFER TO SPECIFICATION FOR ACCEPTABLE JOINT SEALANT



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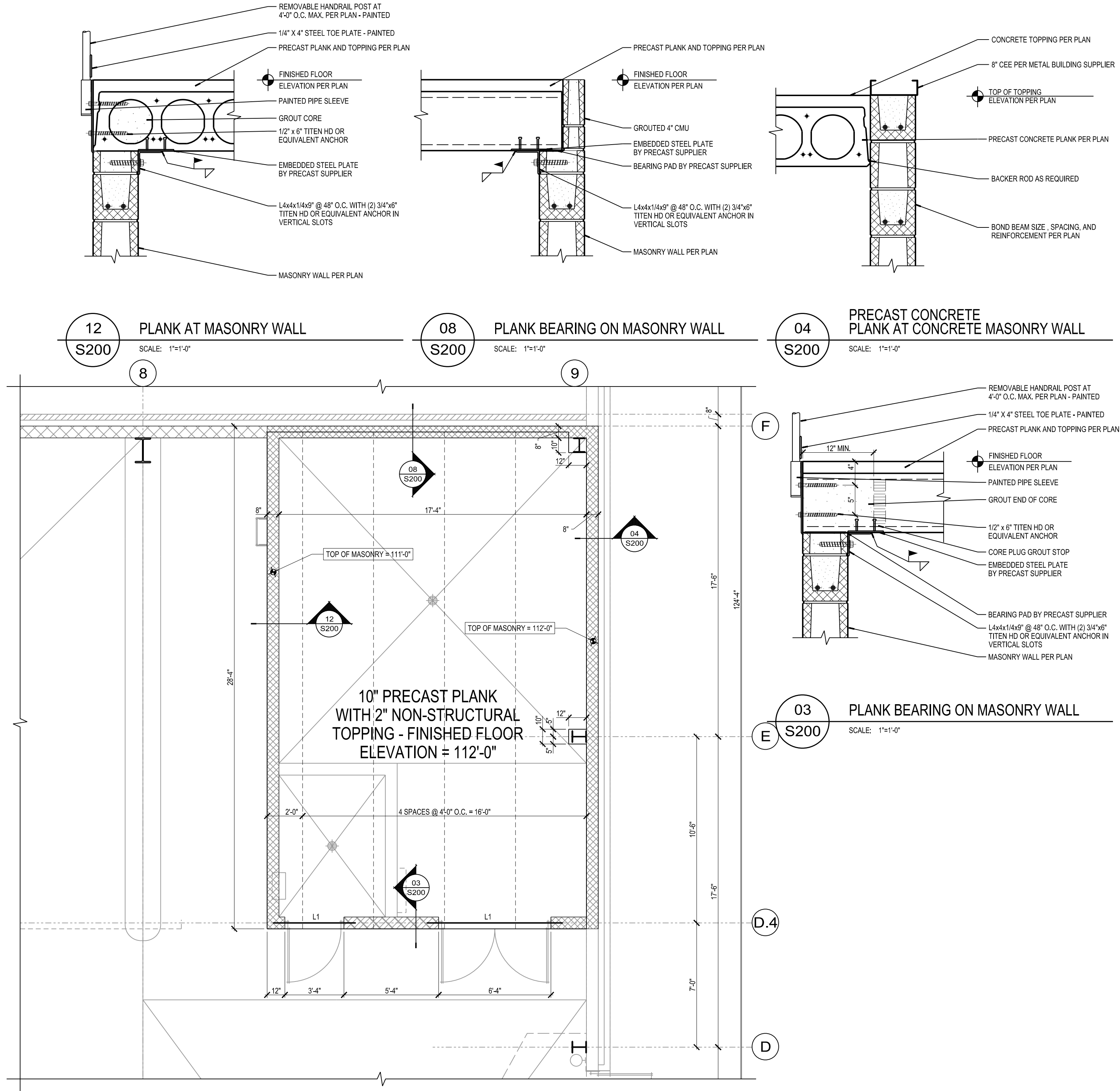
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48150
APPROVED BY
JLH
REVIEWED BY
JCT
DRAWN BY
GSR
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MADISON, WISCONSIN

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- MEZZANINE MASONRY WALL NOTES
1. SHADED WALLS INDICATE STRUCTURAL BEARING WALLS
 2. BOND BEAMS SHALL HAVE (2) #5 BARS CONTINUOUS UNLESS NOTED OTHERWISE
 3. WALLS SHALL BE REINFORCED WITH #5 VERTICAL BARS AT 48\"/>
- PRECAST CONCRETE PLANK FLOOR FRAMING NOTES
1. FINISHED FLOOR ELEVATION = 112'-0\"/>

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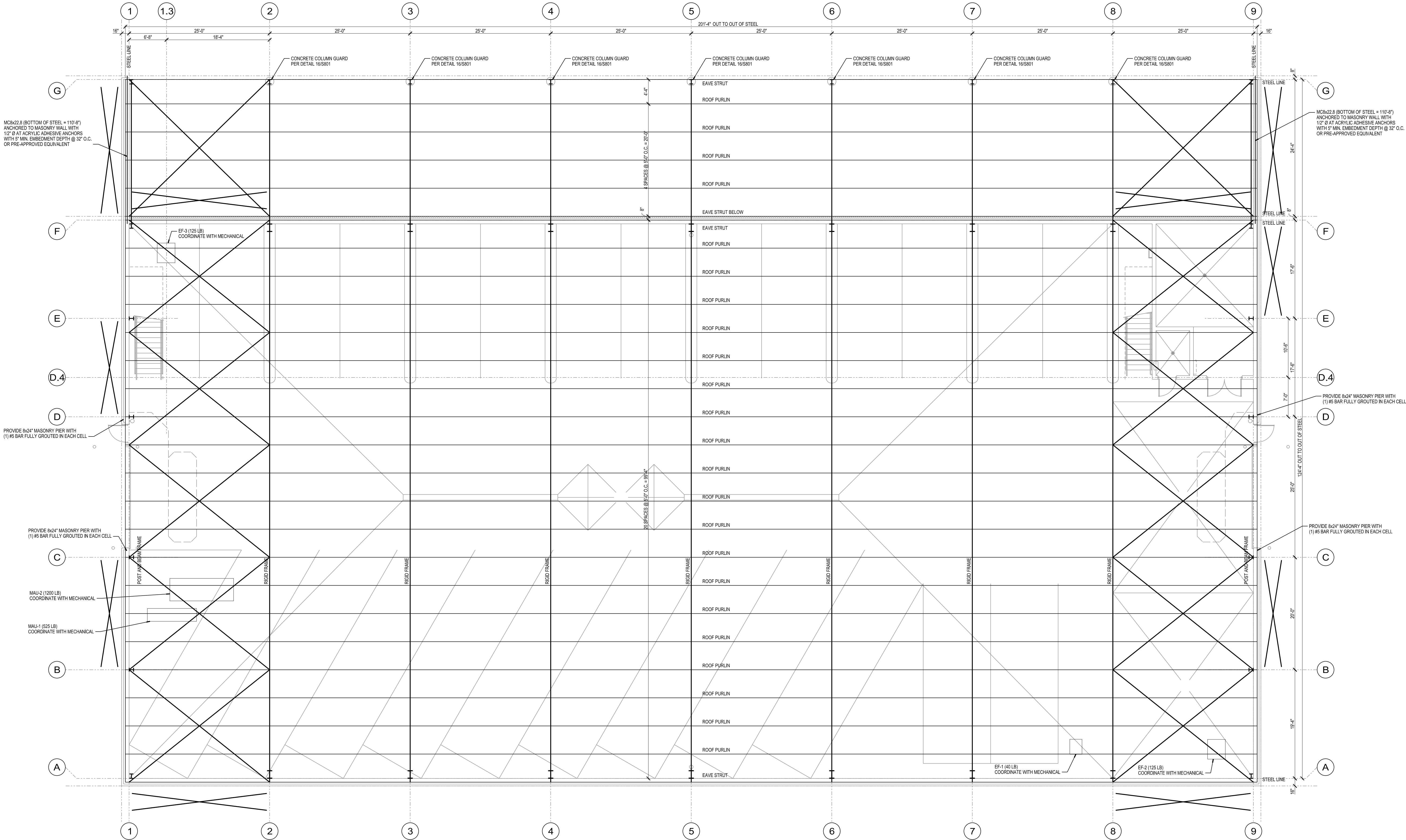
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48150	JLH	JCT	GSR

MEZZANINE
FRAMING PLAN
AND DETAILS
BASE BID

S200

6/14/2013 1:48:05 PM



MASONRY WALL NOTES

1. BOND BEAMS SHALL HAVE (2) #5 BARS CONTINUOUS UNLESS NOTED OTHERWISE
2. WALLS SHALL BE REINFORCED WITH #5 VERTICAL BARS AT 48" O.C. WITH DOWELS INTO FOUNDATION WALL PER DETAIL D15801 UNLESS NOTED OTHERWISE
3. MASONRY WALLS SHALL BE LAID IN RUNNING BOND UNLESS NOTED OTHERWISE

ROOF PLAN GENERAL NOTES

1. REFER TO ELECTRICAL, MECHANICAL, AND PLUMBING DRAWINGS FOR PENETRATIONS THROUGH ROOF. PRE-ENGINEERED BUILDING MANUFACTURER SHALL SUPPLY ALL FLASHINGS MATCHING THE ROOF PROFILE AND GENERAL CONTRACTOR SHALL FLASH ALL ROOF PENETRATIONS AND MECHANICAL SUPPORTS IN ACCORDANCE WITH THE DRAWINGS AND THE MANUFACTURER'S RECOMMENDATIONS TO OBTAIN ROOF WARRANTY.
2. ALL ROOF PENETRATING OBJECTS SHALL BE PAINTED TO MATCH THE COLOR OF THE ROOF
3. BUILDING MANUFACTURER SHALL BE RESPONSIBLE FOR ALL FRAMING AT ROOF PENETRATIONS AND ROOF CURBS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ROOF CURB BLOCKING AND LEVELING OF CURB TOPS.
4. ALL ROOF FLASHINGS AND SEALS SHALL BE PROVIDED BY THE PRE-ENGINEERED BUILDING MANUFACTURER DESIGNED FOR THE ROOF PROFILE PROVIDED
5. MAXIMUM DEPTH OF EXTERIOR COLUMNS SHALL BE 16" - VARY WIDTH AND FLANGE THICKNESS AS NECESSARY
6. COLUMNS SHALL BE STRAIGHT AND FIT ON DESIGNED PIERS

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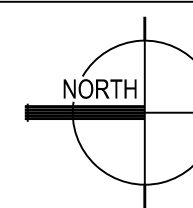
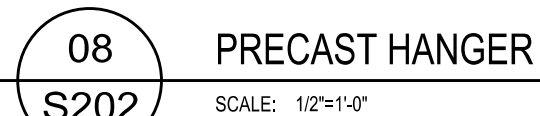
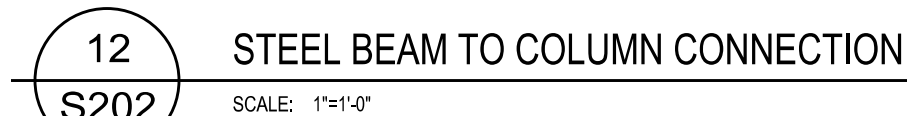
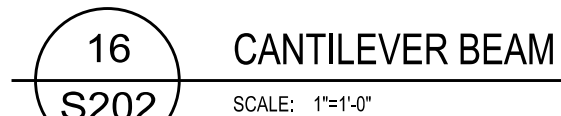
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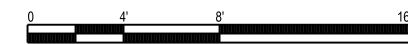
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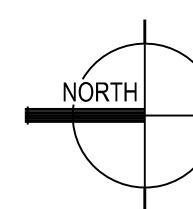
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SCALE: 1/8"=1'-0"



1. CRANE SHALL BE UNDERHUNG SINGLE GIRDER WITH 6 TON CAPACITY



SCALE: 1/8"=1'-0"



1. SEE S200 FOR MEZZANINE MASONRY WALL NOTES

PRECAST CONCRETE PLANK FLOOR FRAMING NOTES

1. SEE S200 FOR PRECAST CONCRETE PLANK FLOOR FRAMING NOTES

ORIGINAL SIZE = 24" x 36"

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REVIEWED BY	JCT
DRAWN BY	GSR

ALTERNATE MEZZANINE
FRAMING PLAN
AND STRUCTURAL DETAILS

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S202

STRUCTURAL DESIGN SPECIFICATIONS

- THE DESIGN PROFESSIONAL WAIVES ANY AND ALL RESPONSIBILITY AND LIABILITY FOR PROBLEMS ARISING FROM FAILURE TO FOLLOW THESE PLANS, SPECIFICATIONS, AND THE DESIGN INTENT THEY CONVEY, OR FOR PROBLEMS ARISING FROM OTHERS' FAILURE TO OBTAIN AN ORDER FOLLOW THE DESIGN PROFESSIONAL'S GUIDANCE WITH RESPECT TO ANY ERRORS, OMISSIONS, INCONSISTENCIES, AMBIGUITIES, OR CONFLICTS WHICH ARE ALLEGED.

- DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS APPLICABLE TO WORK AND PROJECT LOCATION.
- BUILDING ANALYSIS AND DESIGN WERE AND SHALL BE BASED ON THE STATE OF WISCONSIN BUILDING CODE AS AMENDED TO DATE.

- EDITION AND DATE OF REFERENCED STANDARDS SHALL BE AS LISTED IN THE BUILDING CODE.

- DESIGN AND FABRICATION OF WELDS SHALL BE IN ACCORDANCE WITH THE AWS STRUCTURAL WELDING CODE AND THE AISC MANUAL OF STANDARD PRACTICE.

- DESIGN, FABRICATION, AND ERECTION OF COLD FORMED STEEL MEMBERS SHALL BE IN ACCORDANCE WITH THE AISI DESIGN SPECIFICATIONS AND MANUAL OF STANDARD PRACTICE.

- DESIGN, FABRICATION, AND ERECTION OF HOT FORMED STEEL MEMBERS SHALL BE IN ACCORDANCE WITH THE AISC DESIGN SPECIFICATIONS AND A MANUAL OF STANDARD PRACTICE.

- DESIGN, FABRICATION, AND ERECTION OF CONCRETE MASONRY SHALL BE IN ACCORDANCE WITH ACI 530 (BUILDING CODE REQUIREMENTS FOR CONCRETE MASONRY STRUCTURES).

- DESIGN, FABRICATION, AND ERECTION OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318 (BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE).

- DESIGN LOADS:
DEAD

CRANE (EXCLUDING GIRDERS) =	5.3	PSF
MISCELLANEOUS =	4	PSF
MISCELLANEOUS ON FRAMES =	6	PSF

CRANE LIVE =	6	TON
MEZANINE LIVE =	125	PSF
STAIRWAYS =	100	PSF
CORRIDORS ON FIRST FLOOR =	100	PSF
SMALL VEHICLE ACCESSIBLE AREAS =	50	PSF
LARGE VEHICLE ACCESSIBLE AREAS =	HS20-44	

TRIBUTARY AREA:	20	PSF
INTERPOLATE	200-600	
CONCENTRATED AT ANY POINT =	12	PSF
CONCENTRATED AT ANY POINT =	300	LBS

ROOF SNOW - HEATED BUILDING (ASCE 7-98)		
SNOW EXPOSURE FACTOR (C _e) =	1.0	
THERMAL FACTOR (C _t) =	1.0	
SNOW IMPORTANCE FACTOR (I _s) =	1.00	
GROUND SNOW LOAD (P _g) =	30	PSF
FLAT ROOF SNOW LOAD (P _f) =	21	PSF
ROOF SLOPE FACTOR (C _s) =	1.0	
SLOPED ROOF SNOW LOAD (P _s) =	21	PSF
ROOF SNOW - COVERED STORAGE (ASCE 7-98)		
SNOW EXPOSURE FACTOR (C _e) =	1.0	
THERMAL FACTOR (C _t) =	1.2	
SNOW IMPORTANCE FACTOR (I _s) =	1.00	
GROUND SNOW LOAD (P _g) =	30	PSF
FLAT ROOF SNOW LOAD (P _f) =	25.2	PSF
ROOF SLOPE FACTOR (C _s) =	1.0	
SLOPED ROOF SNOW LOAD (P _s) =	25.2	PSF

WIND (ASCE 7-98)	
3 SECOND GUST BASIC WIND SPEED (V) =	90 MPH
WIND IMPORTANCE FACTOR (I _w) =	1.0
NORTH-SOUTH WIND EXPOSURE CATEGORY =	C
EAST-WEST WIND EXPOSURE CATEGORY =	C
BUILDING CATEGORY: ENCLOSED	
INTERNAL PRESSURE COEFFICIENTS:	+18 -18

COMPONENTS AND CLADDING LOADS:	
NOTE - REFER TO ASCE 7 FOR ZONE DIAGRAMS	
ZONE WIDTH (A) =	11.6 FT
NOTE - INTERPOLATE FOR TRIBUTARY AREAS NOT SHOWN	
ROOFS:	

COMPONENTS AND CLADDING LOADS:
NOTE - REFER TO ASCE 7 FOR ZONE DIAGRAMS

	ZONE 1 =	8.3	PSF
		-20.3	PSF
	ZONE 2 =	8.3	PSF
		-34.1	PSF
	ZONE 3 =	8.3	PSF
		-51.3	PSF
TRIBUTARY AREA GREATER THAN	100	SQ FT	
	ZONE 1 =	6.5	PSF
		-18.6	PSF
	ZONE 2 =	6.5	PSF
		-22.0	PSF
	ZONE 3 =	6.5	PSF
		-22.0	PSF

WINDWARD WALLS:			
TRIBUTARY AREA LESS THAN		10	SQ FT
ZONE 4 =		20.3	PSF
		-22.0	PSF
ZONE 5 =		20.3	PSF
		-27.2	PSF
TRIBUTARY AREA GREATER THAN		500	SQ FT
ZONE 4 =		15.1	PSF
		-16.9	PSF
ZONE 5 =		15.1	PSF
		-16.9	PSF

LEEWARD AND SIDE WALLS:		
TRIBUTARY AREA LESS THAN	10	SQ FT
ZONE 4 =	20.3	PSF
	-22.0	PSF
ZONE 5 =	20.3	PSF
	-27.2	PSF
TRIBUTARY AREA GREATER THAN	500	SQ FT
ZONE 4 =	15.1	PSF
	-16.9	PSF
ZONE 5 =	15.1	PSF
	-16.9	PSF

EARTHQUAKE - RIGID FRAME (EC 2000)	
SEISMIC IMPORTANCE FACTOR, I_e =	1.0
SEISMIC USE GROUP =	1
SHORT PERIOD MAPPED SPECTRAL RESPONSE (S_s) =	0.104 g
1 SECOND PERIOD MAPPED SPECTRAL RESPONSE (S_1) =	0.044 g
SITE CLASS = D	
SHORT PERIOD DESIGN SPECTRAL RESPONSE (S_{DS}) =	0.111 g
1 SECOND PERIOD DESIGN SPECTRAL RESPONSE (S_{1D}) =	0.07 g
SEISMIC DESIGN CATEGORY =	8
NORTH-SOUTH SEISMIC RESPONSE COEFFICIENT (C_s) =	0.022
EAST-WEST SEISMIC RESPONSE COEFFICIENT (C_s) =	0.028
NORTH-SOUTH RESPONSE MODIFICATION FACTOR (R) =	5
EAST-WEST RESPONSE MODIFICATION FACTOR (R) =	4

SYSTE M: BUILDING FRAME
TYPE: ORDINARY STEEL CONCENTRICALLY BRACED FRAME

SYSTE M: MOMENT RESISTING FRAME
TYPE: ORDINARY STEEL MOMENT FRAME

STRUCTURAL GENERAL NOTES

GENERAL

- DESIGN DRAWINGS SHOW THE INTENT OF REQUIRED CONSTRUCTION AND SPECIFIC CONSTRUCTION AS NEEDED TO FACILITATE CLEAR DETAILING. FOR SPECIFIC CONDITIONS NOT SHOWN, THE CONTRACTOR SHALL PROVIDE DETAILS OF CONSTRUCTION SIMILAR TO THOSE SHOWN.
- THE FOLLOWING NOTES APPLY TO THE PLANS AND/OR SPECIFICATIONS UNLESS NOTED OTHERWISE. IN THE CASE OF CONFLICT WITH PLANS AND/OR SPECIFICATIONS, THE MORE RESTRICTIVE REQUIREMENT SHALL APPLY.
- CONTRACTOR SHALL BECOME FAMILIAR WITH EACH DRAWING AND DETAIL CONTAINED IN THE DRAWING SET AND REPORT ANY ERRORS, OMISSIONS, DISCREPANCIES, OR DETAILS NOT REFERENCED FOR INSTRUCTIONS FROM THE DESIGN PROFESSIONAL.
- VERIFY AND COORDINATE EXISTING CONDITIONS, DIMENSIONS, AND CONSTRUCTION IN PROGRESS WITH THE SHOP DRAWINGS FOR THE VARIOUS MATERIALS AND BUILDING COMPONENTS PRIOR TO SUBMITTAL. ORDERING ANY MATERIAL OR COMMENCEMENT OF ANY WORK, ALL DIMENSIONAL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONAL.
- VERIFY AND COORDINATE WITH ALL CONTRACTORS THE SIZE AND LOCATION OF ALL ARCHITECTURAL AND MECHANICAL APERTURES AND OPENINGS.
- CONSTRUCTION PRACTICE, MEANS AND METHODS, AND JOBSITE SAFETY SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, STRUCTURAL, AND OTHER DISCIPLINE DRAWINGS TO COORDINATE ALL MISCELLANEOUS WORK PROVIDED FOR OTHER DISCIPLINES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING ALL DIVISION OF MATERIALS AND LABOR FOR THE WORK.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH THE FEDERAL OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION (OSHA) AND ALL FEDERAL, STATE, AND LOCAL BUILDING CODES AND ZONING ORDINANCES AS THEY PERTAIN TO THIS PROJECT.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY BRACING, SUPPORTS, SHORING, ETC. UNTIL PERMANENT BRACING AND SUPPORT SYSTEMS ARE IN PLACE AND FUNCTIONAL. THE DESIGN, ADEQUACY, AND SAFETY OF TEMPORARY BRACING, SUPPORTS, SHORING, ETC., SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- STRUCTURAL FRAMING AND CONNECTIONS HAVE BEEN DESIGNED FOR THE FINAL COMPLETED CONDITION AND HAVE NOT BEEN INVESTIGATED FOR POTENTIAL LOADINGS ENCOUNTERED DURING CONSTRUCTION. INVESTIGATION OF THE FRAMING AND CONNECTIONS FOR ADEQUACY DURING CONSTRUCTION SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL REBOUT EXISTING MECHANICAL, ELECTRICAL, AND PLUMBING WORK NOT OTHERWISE INDICATED TO FACILITATE NEW CONSTRUCTION AND SHALL SUBMIT PLANS FOR APPROVAL INDICATING EXISTING AND REROUTED LOCATIONS.
- SUBSTITUTIONS FOR PROPRIETARY STRUCTURAL PRODUCTS DESIGNATED ON THE DRAWINGS SHALL BE APPROVED BY THE DESIGN PROFESSIONAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NECESSARY INFORMATION USED TO DETERMINE ADEQUACY OF PROPOSED SUBSTITUTIONS INCLUDING STRUCTURAL CALCULATIONS IF NECESSARY.
- SHOP DRAWINGS INCLUDING BOTH ERECTION AND PRODUCTION DRAWINGS SHALL BE COMPLETED PRIOR TO THE START OF FABRICATION.

EARTHWORK

- CONTACT PROPER AUTHORITIES TO LOCATE EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION.

- A LICENSED GEOTECHNICAL ENGINEER ACCEPTABLE TO THE OWNER SHALL BE RETAINED BY THE CONTRACTOR TO INSPECT, TEST, APPROVE, DOCUMENT, AND REPORT ALL BEARING CONDITIONS AND COMPACTED FILL INSTALLATIONS PRIOR TO CONCRETE PLACEMENT. FOUNDATION CONSTRUCTION MAY BE ADJUSTED BY THE DESIGN PROFESSIONAL IF REQUIRED BY THE GEOTECHNICAL ENGINEER. CONSULT THE DESIGN PROFESSIONAL BEFORE PROCEEDING.

- CONTRACTOR SHALL COORDINATE AND SCHEDULE WHEN THE GEOTECHNICAL ENGINEER IS TO BE ON SITE. NO FOOTINGS OR FOUNDATIONS SHALL BE PLACED WITHOUT PRIOR APPROVAL FROM THE GEOTECHNICAL ENGINEER.

- IF EXCAVATION INDICATES A SOIL BEARING CAPACITY LESS THAN DESIGN CAPACITY AT FOOTING DEPTH, CONSULT THE DESIGN PROFESSIONAL BEFORE PROCEEDING.

- FOOTINGS SHALL BE CAST ON UNDISTURBED SOIL, COMPACTED FILL, OR CONTROLLED LOW STRENGTH MATERIAL (CLSM).

- COMPACT ALL SUBGRADE BELOW FOOTINGS PRIOR TO CONCRETE PLACEMENT.

- HOLES, TRENCHES, OR DISTURBANCES IN THE SOIL SHALL NOT BE ALLOWED WITHIN THE VOLUME DESCRIBED BY 45 DEGREE LINES SLOPING FROM THE BOTTOM EDGE OF THE FOOTING. IF SUCH ARE REQUIRED, CONSULT THE DESIGN PROFESSIONAL BEFORE PROCEEDING.

- DO NOT PLACE UNDERGROUND UTILITIES OR PIPES BELOW FOOTINGS WITHOUT CONSULTING THE DESIGN PROFESSIONAL BEFORE PROCEEDING.

- TOPSOIL OR UNACCEPTABLE SOIL BELOW SLABS ON GRADE SHALL BE REMOVED.

- LOOSE ALL SUBGRADE MATERIAL PRIOR TO PLACEMENT OF ANY FILL. REMOVE LOOSE MATERIAL AND DEBRIS THAT CANNOT BE ADEQUATELY COMPACTED.

- BACKFILL AGAINST ANY WALLS OR CONSTRUCTION SHALL NOT BE PLACED UNLESS THE WALLS ARE ADEQUATELY BRACED TO WITHSTAND THE LOADS IMPOSED DUE TO THE BACKFILLING OPERATION.

- DESIGN, FURNISH AND INSTALL ALL TEMPORARY SHEETING AND SHORING NECESSARY TO MAINTAIN THE EXCAVATION AND PROTECT SURROUNDING STRUCTURES AND UTILITIES.

- PROVIDE ANY Dewatering REQUIRED DURING EXCAVATION AND CONSTRUCTION.

CONCRETE

- CONCRETE WORK SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE INCLUDING BUT NOT LIMITED TO ACI 301 (SPECIFICATIONS FOR STRUCTURAL CONCRETE) ACI 308 (HOT WEATHER CONCRETE), AND ACI 309 (COLD WEATHER CONCRETE). CONCRETE DETAILING SHALL CONFORM TO ACI SP-68 ("ACI DETAILING MANUAL").
- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE REINFORCEMENT.
- A CERTIFIED TESTING AGENCY ACCEPTABLE TO THE OWNER SHALL BE RETAINED BY THE CONTRACTOR TO INSPECT, TEST, APPROVE, DOCUMENT, AND REPORT ON ALL CONCRETE PROPERTIES.
- CONTRACTOR SHALL NOTIFY DESIGN PROFESSIONAL, BUILDING INSPECTOR, AND TESTING AGENCY AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE. FOR PRE-POUR INSPECTION OF ALL CONDITIONS THAT THE CONCRETE WILL HIDE.
- SLABS ON GRADE SHALL BE CAST ALLOWING A SUFFICIENT NUMBER OF JOINTS TO ADEQUATELY CONTROL SHRINKAGE CRACKING. GENERALLY, JOINTS SHALL OCCUR ON COLUMN CENTERLINES. JOINTS SHALL BE SPACED IN SUCH A WAY THAT THE LENGTH TO WIDTH RATIO OF UN-JOINTED SLAB PORTION SHALL NEVER BE GREATER THAN 2. MAXIMUM SPACING BETWEEN JOINTS SHALL BE 15'-0".
- SLABS ON GRADE SHALL HAVE THE FOLLOWING FINISH UNLESS NOTED OTHERWISE:
EXTERIOR SLABS - BROOM FINISH
INTERIOR SLABS - TROWEL FINISH
SLABS TO RECEIVE BONDED TOPPINGS - SCRATCH FINISH
SLABS TO RECEIVE TILE BY THIN OR THICK SET METHOD - FINE BROOM FINISH
- SLABS ON GRADE SHALL HAVE A 6 MIL VAPOR RETARDER BELOW SLAB UNLESS NOTED OTHERWISE.

- SLABS ON GRADE SHALL HAVE A 6 MIL VAPOR RETARDER BELOW SLAB UNLESS NOTED OTHERWISE.

- SLOPE SLAB ON GRADE 1/4" PER FOOT TO DRAINS.

- SLOPE SLAB ON GRADE AT OVERHEAD DOORS 1/2" IN DEPTH OF DOOR JAMB AWAY FROM BUILDING.

- SAW-CUTTING SHALL BE DONE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT THE AGGREGATE FROM BEING DISLOADED BY THE SAW AND SHALL BE COMPLETED BEFORE SHRINKAGE STRESSES BECOME SUFFICIENT TO PRODUCE CRACKING, WITHIN 16 HOURS MAXIMUM OF THE INITIAL CASTING OPERATION.

- ALLOW AT LEAST 24 HOURS BEFORE POURING ADJACENT WALL SECTIONS BETWEEN CONSTRUCTION JOINTS.

- MAX LENGTH OF POUR TO BE 50 FEET UNLESS CRACK INDUCERS ARE DETAILLED.

- ALL REINFORCING SHALL BE SECURELY HELD IN POSITION BY SUITABLE ACCESSORIES PRIOR TO CONCRETE PLACEMENT EXCEPT AS NOTED OR SPECIFIED.

- PERS SHALL BE POURED MONOLITHICALLY WITH WALLS.

- BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 3'-6" BELOW FINISHED GRADE UNLESS NOTED OTHERWISE.

- FOOTINGS SHALL BE CENTERED BELOW WALLS, PERS, AND COLUMNS ABOVE UNLESS NOTED OTHERWISE.

- SLOPE EXTERIOR STOOPS 1/4" PER FOOT AWAY FROM BUILDING.

- TOP OF FOUNDATION WALL SHALL BE DROPPED 8" AT DOOR THRESHOLDS FOR FLOOR SLAB CAP. WIDTH OF CAP SHALL BE EQUAL TO WIDTH OF ROUGH OPENING.

- WHERE REINFORCING IS CALLED FOR IN PORTIONS OF THE BUILDING, IT SHALL BE DUPLICATED IN SIMILAR PORTIONS OF THE BUILDING.

- DOWELS INTO FOUNDATION SHALL BE SAME NUMBER AND SIZE AS WALL/PIER/COLUMN VERTICAL REINFORCING.

- BARS SPLICES SHALL BE LAPPED WITH CLASS B SPLICE LENGTHS UNLESS NOTED OTHERWISE. LAP WELDED WIRE REINFORCEMENT 6 INCHES.

- HORIZONTAL REINFORCING IN CONCRETE WALLS SHALL BE CONTINUOUS.

- VERTICAL REINFORCING IN CONCRETE WALLS SHALL END 2" FROM THE TOP OF THE WALL.

- PROVIDE (2) #4 BARS AS STIRRUP CARRY BARS WHERE TOP STEEL IS UNAVAILABLE TO SUPPORT STIRRUPS.

- PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT WALL CORNERS. BARS SHALL BE 40 BAR DIAMETERS IN LENGTH EACH WAY.

- PROVIDE INTERSECTION BARS OF SAME SIZE AND SPACING AS HORIZONTAL BARS AT WALL INTERSECTIONS. BARS SHALL BE 40 BAR DIAMETERS IN LENGTH WITH STANDARD HOOKS EACH WAY AT INTERSECTING WALL.

- DO NOT CUT OR PLACE HOLES IN CONCRETE SLABS, BEAMS, COLUMNS, OR WALLS WITHOUT PRIOR APPROVAL OF THE DESIGN PROFESSIONAL.

- SLABS SHALL HAVE #4 BARS DIAGONALLY AT INTERIOR CORNERS OF WALLS, PERS, AND FOUNDATION DROPS FOR SLAB CAPS UNLESS A CONTROL JOINT IS PROVIDED AT THE CORNER.

- PIPES AND CONDUITS EMBEDDED IN OR PASSING THROUGH STRUCTURAL MEMBERS MUST BE APPROVED BY THE DESIGN PROFESSIONAL. PIPE AND CONDUIT EMBEDDED IN CONCRETES SHALL NOT BE LARGER IN OUTSIDE DIAMETER AT ITS WIDEST POINT OR FITTING THAN 2 INCHES OR 1/3 OF THE THICKNESS OF THE SLAB, BEAM, OR WALL; AND SHALL BE LOCATED AND PLACED AS SUCH:
 1. NOT CLOSER THAN THREE DIAMETERS ON CENTER.
 2. CONCRETE COVER SHALL NOT LESS THAN 2 INCHES.
 3. NO REINFORCING SHALL BE DISPLACED.

- COORDINATE AND VERIFY SIZE AND LOCATION OF ALL OPENINGS, SLEEVES, CHASES, CONDUITS, DERESSED AREAS, FLOOR FINISHES, FILLS, ANCHORS, STONE AND MASONRY INSERTS, HANGERS, CURBS, AND OTHER MISCELLANEOUS ITEMS BEFORE PLACING CONCRETE.

- CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.

- A MINIMUM OF 4 CONCRETE CYLINDERS SHALL BE TAKEN FOR EACH CONCRETE PORTION TESTED.

- ALL STEEL REMAINING EXPOSED TO VIEW SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AISC CODE OF STANDARD PRACTICE SECTION PERTAINING TO ARCHITECTURALLY EXPOSED STRUCTURAL STEEL, WITHOUT GAPS OR OPEN JOINTS.

PRECAST CONCRETE

- PRECAST CONCRETE WORK SHALL CONFORM TO THE ACI MANUAL OF STANDARD PRACTICE INCLUDING BUT NOT LIMITED TO ACI 301 ("SPECIFICATIONS FOR STRUCTURAL CONCRETE").

- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE PRECAST CONCRETE.

- CONTRACTOR SHALL SUBMIT PRECAST CONCRETE FINAL SHOP DRAWINGS, DESIGN CALCULATIONS, AND STATE SUBMITTAL FEE TO THE DESIGN PROFESSIONAL FOR STATE SUBMITTAL PRIOR TO INSTALLATION.

- EMBEDMENTS AND CONNECTIONS NECESSARY FOR PRECAST INSTALLATION SHALL BE PROVIDED BY THE PRECAST CONTRACTOR WITH COMPLETE SETTING DRAWINGS AND TEMPLATES. CONTRACTOR SHALL COORDINATE INSTALLATION WITH THE APPLICABLE TRADE.

- COORDINATE SIZE AND LOCATION OF ALL HOLES AND OPENINGS WITH THE RESPECTIVE TRADES PRIOR TO FABRICATION. DEVIATION FROM THESE LOCATIONS AND ADDITIONAL OPENINGS SHALL BE APPROVED BY THE FABRICATOR. OPENINGS LARGER THAN 8" SHALL BE FURNISHED BY THE FABRICATOR AND ALL CORING OF PRECAST SHALL BE APPROVED BY THE MANUFACTURER.

- MAXIMUM ALLOWABLE CAMBER IS 1" WITHOUT CONSULTATION FROM THE DESIGN PROFESSIONAL.

- PRECAST CONCRETE PLANK SHALL HAVE A MINIMUM 2" STRUCTURAL TOPPING UNLESS NOTED OTHERWISE. CONSULT THE DESIGN PROFESSIONAL PRIOR TO ADJUSTMENT OF BEARING HEIGHT IF REQUIRED TO ACCOUNT FOR LARGE CAMBERS.

- FIRE RATING OF PRECAST FLOOR PLANK SHALL BE 1 HOUR UNLESS NOTED OTHERWISE.

- GROUT WITH f_{cc} = 4000psi SHALL BE USED IN PRECAST MEMBER KEYWAYS.

- PRECAST SHALL BE VERTICALLY SELF-SUPPORTING.

- PRECAST CONCRETE ERECTION, LEVELING/ALIGNING, AND GROUTING SHALL CONFORM WITH MANUFACTURERS PUBLISHED DATA.

MASONRY

- MASONRY WORK SHALL CONFORM TO ACI 530.1/ASCE 6/MSI 602 (SPECIFICATION FOR MASONRY STRUCTURES) INCLUDING BUT NOT LIMITED TO THE HOT AND COLD WEATHER REQUIREMENTS.

- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE MASONRY REINFORCEMENT.

- ANCHOR VEBERS TO BACKUP WALLS WITH TIES AT MAXIMUM SPACINGS OF 2'-0"x2'-0".

- VERTICAL REINFORCING SHALL BE TERMINATED WITH HOOKED BARS AT THE TOP OF WALL/COLUMN AND LAP SPLICED WITH DOWELS AT THE FOUNDATION.

- DOWELS INTO FOUNDATION SHALL BE SAME NUMBER AND SIZE AS WALL/PIER/COLUMN REINFORCING.

PRE-ENGINEERED METAL BUILDINGS

- CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE PRE-ENGINEERED METAL BUILDINGS.

- CONTRACTOR SHALL SUBMIT PRE-ENGINEERED METAL BUILDING FINAL SHOP DRAWINGS, DESIGN CALCULATIONS, AND STATE SUBMITTAL FEE TO THE DESIGN PROFESSIONAL FOR STATE SUBMITTAL PRIOR TO INSTALLATION.

- FOUNDATION DESIGN SHOWN ON DRAWINGS MUST BE VERIFIED WITH LOADING PROVIDED BY PRE-ENGINEERED BUILDING DESIGNER PRIOR TO CONSTRUCTION - VERIFY WITH THE DESIGN PROFESSIONAL PRIOR TO CONSTRUCTION.

- ANCHOR BOLT EMBEDMENT SHALL BE 12" UNLESS NOTED OTHERWISE.

- DESIGN ALL COLUMNS WITHOUT FLANGE BRACES.

- ROOF STRUCTURE SHALL BE DESIGNED FOR THE MINIMUM DEAD LOAD EVEN IF THE ROOFING PANELS ARE LIGHTER THAN THE MINIMUM.

- MISCELLANEOUS DEAD LOADING (COLLATERAL GRAVITY) SHALL BE 4 PSF MINIMUM ON THE ENTIRE STRUCTURE WITH AN ADDITIONAL 6 PSF (10 PSF TOTAL) ON THE FRAMES ONLY FOR MISC. MECHANICAL EQPT. ALLOWANCE.

- HORIZONTAL DEFLECTION OF ALL FRAMES SHALL NOT EXCEED 1/100 OF THE HEIGHT.

- DEFLECTION OF WALL GIRTS SHALL NOT EXCEED 1/240 OF THE SPAN.

- COORDINATE MECHANICAL UNIT LOCATIONS, WEIGHTS, AND SIZES WITH MECHANICAL CONTRACTOR.

- FRAMING FOR ALL ROOFTOP UNITS AND OPENINGS SHALL BE PROVIDED BY THE PRE-ENGINEERED METAL BUILDING MANUFACTURER.

- VERTICAL CLEARANCE UNDER ALL FRAMES SHALL BE MINIMUM OF 22'-6" FEET.

- STRUCTURAL FRAMING GAGES, SIZES, AND CONNECTIONS SHALL BE DESIGNED BY PRE-ENGINEERED METAL BUILDING MANUFACTURER.

- BRACING SHALL BE PLACED IN LOCATIONS SHOWN ON THE DRAWINGS IF NEEDED.

- COLUMNS BASE PLATES SHALL BE FLUSH WITH OUTSIDE FACE OF GIRTS.

MISCELLANEOUS

- PROVISIONS SHALL BE TAKEN TO ASSURE NON-STRUCTURAL COMPONENTS ARE NOT DISTORTED OR DAMAGED BY DEFLECTION OF THE STRUCTURE.

- EDGE OF ROOF FLASHINGS SHALL ALLOW RAINWATER TO PASS THROUGH.

- THE MINIMUM END CONNECTION OF GIRTS SHALL BE MADE WITH TWO (2) A325 1/2" DIAMETER BOLTS OR EQUIVALENT WELD UNLESS NOTED OTHERWISE.

- STAIR LANDINGS FOR STEEL PAN STAIRS SHALL BE FRAMED WITH 1/4" STEEL PLATE.

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ISSUANCES	REVISIONS
UDC FINAL APPROVAL SUBMITTAL - 07/17/2012	
DESIGN DEVELOPMENT PACKET - 08/23/2012	
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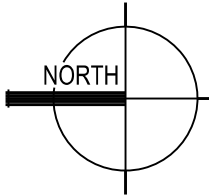
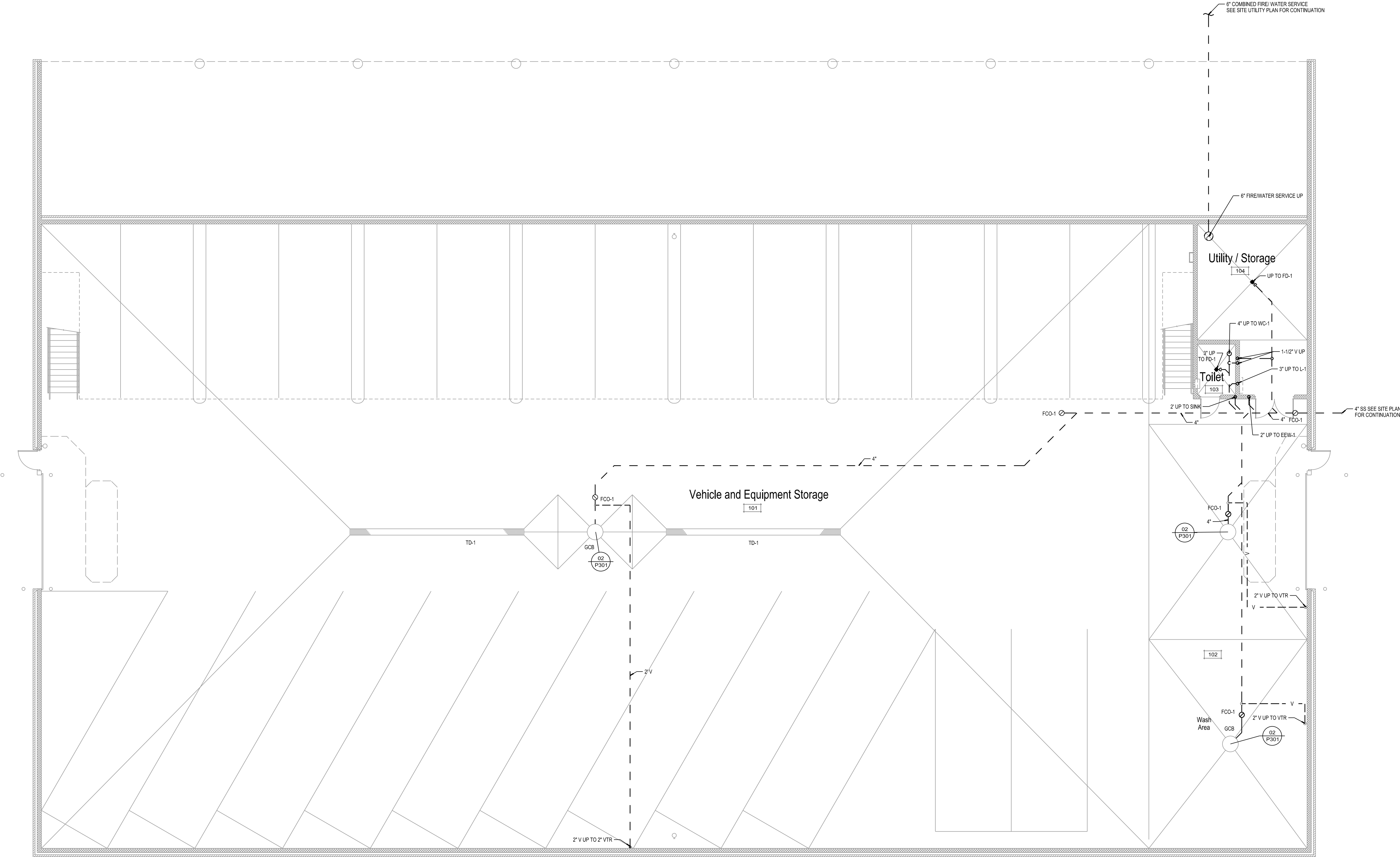
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PROJECT NUMBER	48150
APPROVED BY	JAH
REVIEWED BY	JCT
DRAWN BY	GSR
6/14/2013	1:48:11 PM

STRUCTURAL NOTES
AND SCHEDULES

S301

SCALE: 1/8"=1'-0"
PLOTTED BY: BWW
ORIGINAL SIZE = 24" x 36"
X:\48150\dwg\48150S301.dgn



PLUMBING UNDER FLOOR PLAN

SCALE: 1/8"=1'-0"

PLUMBING NOTES

1. COORDINATE WITH GENERAL CONTRACTOR TO ESTABLISH TOP OF GRATE ELEVATIONS FOR ALL TRENCH DRAINS AND GARAGE CATCH BASINS.

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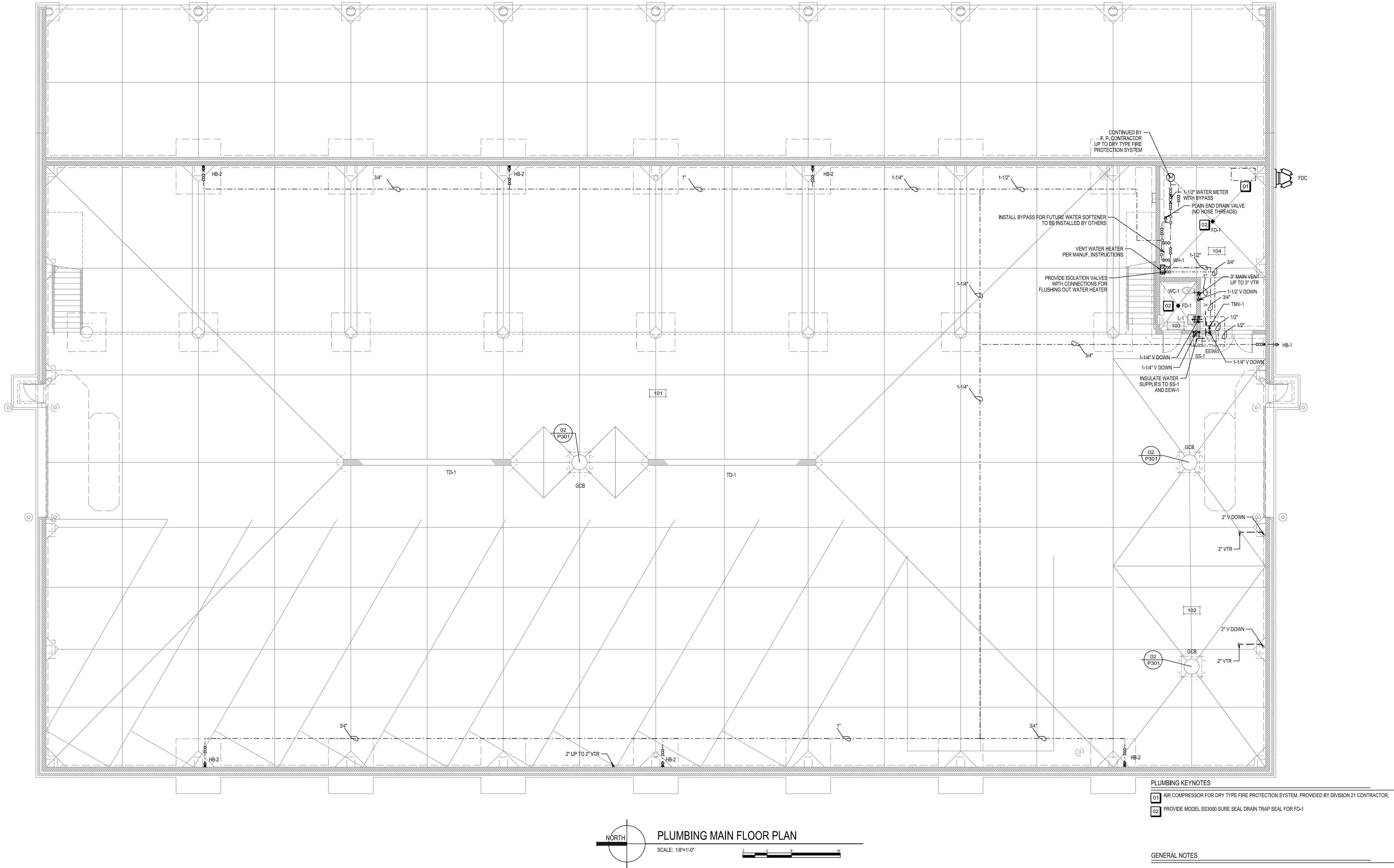
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PROJECT NUMBER 48150	APPROVED BY JLH	REVIEWED BY JCT	DRAWN BY JDF	6/14/2013 1:47:53 PM
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PLUMBING UNDER FLOOR PLAN



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MAIN LEVEL
PLUMBING FLOOR PLAN

P101

PROJECT NUMBER
48150

APPROVED BY
JLH

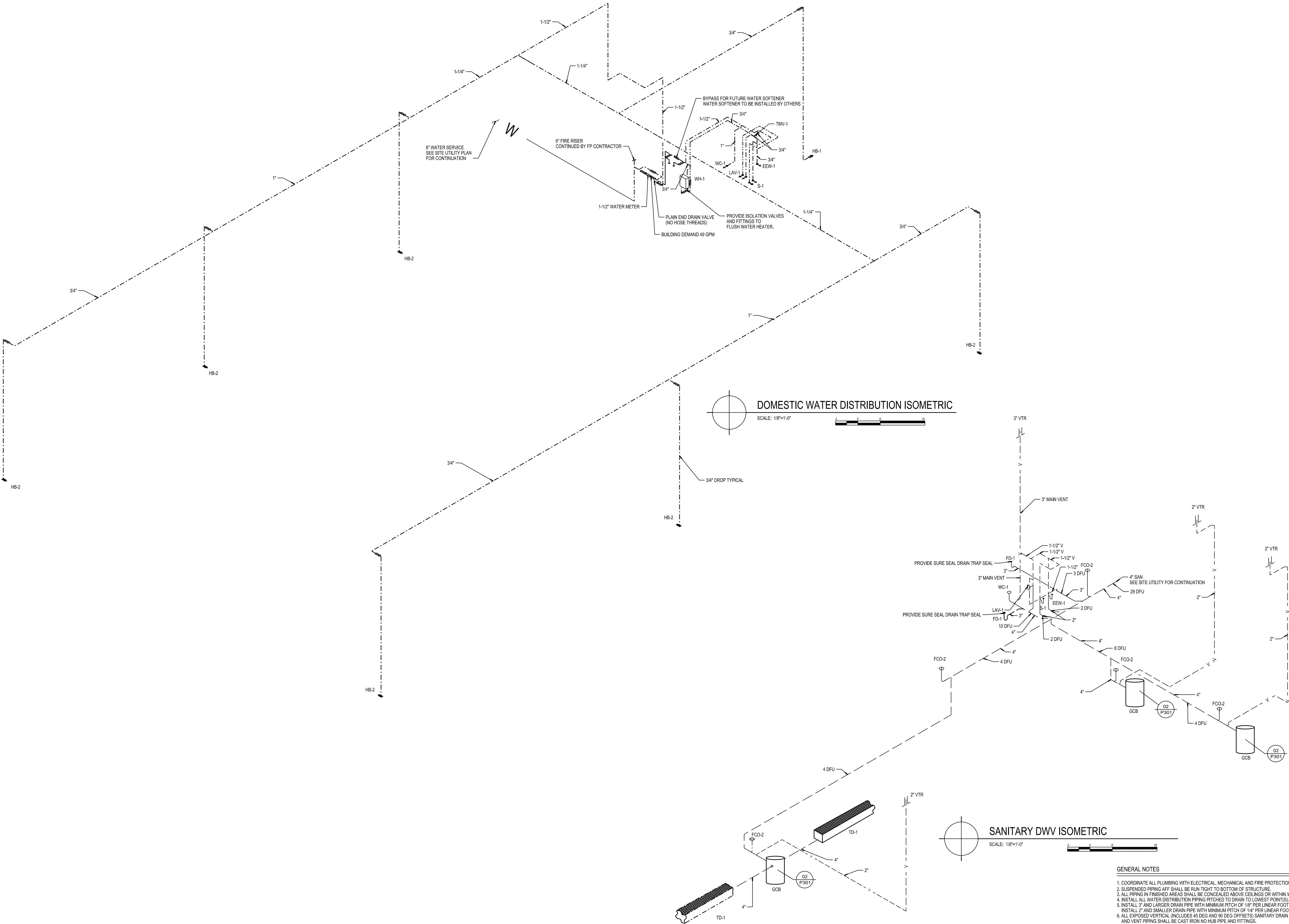
REVIEWED BY
JCT

DRAWN BY
JDF

6/14/2013 1:47:55 PM

SCALE: 1/8"=1'-0"
PLOTTED BY: BAW

ORIGINAL SIZE = 24" x 36"
X:\4815\cam\481506c201.dgn



- GENERAL NOTES
- COORDINATE ALL PLUMBING WITH ELECTRICAL, MECHANICAL AND FIRE PROTECTION CONTRACTORS.
 - SUSPENDED PIPING AFF SHALL BE RUN TIGHT TO BOTTOM OF STRUCTURE.
 - ALL PIPING IN FINISHED AREAS SHALL BE CONCEALED ABOVE CEILINGS OR WITHIN WALLS.
 - INSTALL ALL WATER DISTRIBUTION PIPING PITCHED TO DRAIN TO LOWEST POINT(S).
 - INSTALL 2" AND LARGER DRAIN PIPE WITH MINIMUM PITCH OF 1/8" PER LINEAR FOOT. INSTALL 2" AND SMALLER DRAIN PIPE WITH MINIMUM PITCH OF 1/4" PER LINEAR FOOT.
 - ALL EXPOSED VERTICAL (INCLUDES 45 DEG AND 90 DEG OFFSETS) SANITARY DRAIN WASTE AND VENT PIPING SHALL BE CAST IRON NO HUB PIPE AND FITTINGS.
 - REFER TO DWV AND DOMESTIC WATER ISO FOR PIPE SIZING AND LOADS.
 - DOMESTIC WATER PIPING (EXCEPT BUILDING WATER SERVICE) SHALL NOT BE INSTALLED BELOW SLAB.
 - DOMESTIC WATER PIPING SUPPLYING HOSE BIBBS SHALL BE PITCHED TO DRAIN BACK TO EQUIPMENT STORAGE ROOM.

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PROJECT NUMBER	48150
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REVIEWED BY	JCT
DRAWN BY	JDF
6/14/2013	1:47:57 PM

PLUMBING ISOMETRICS

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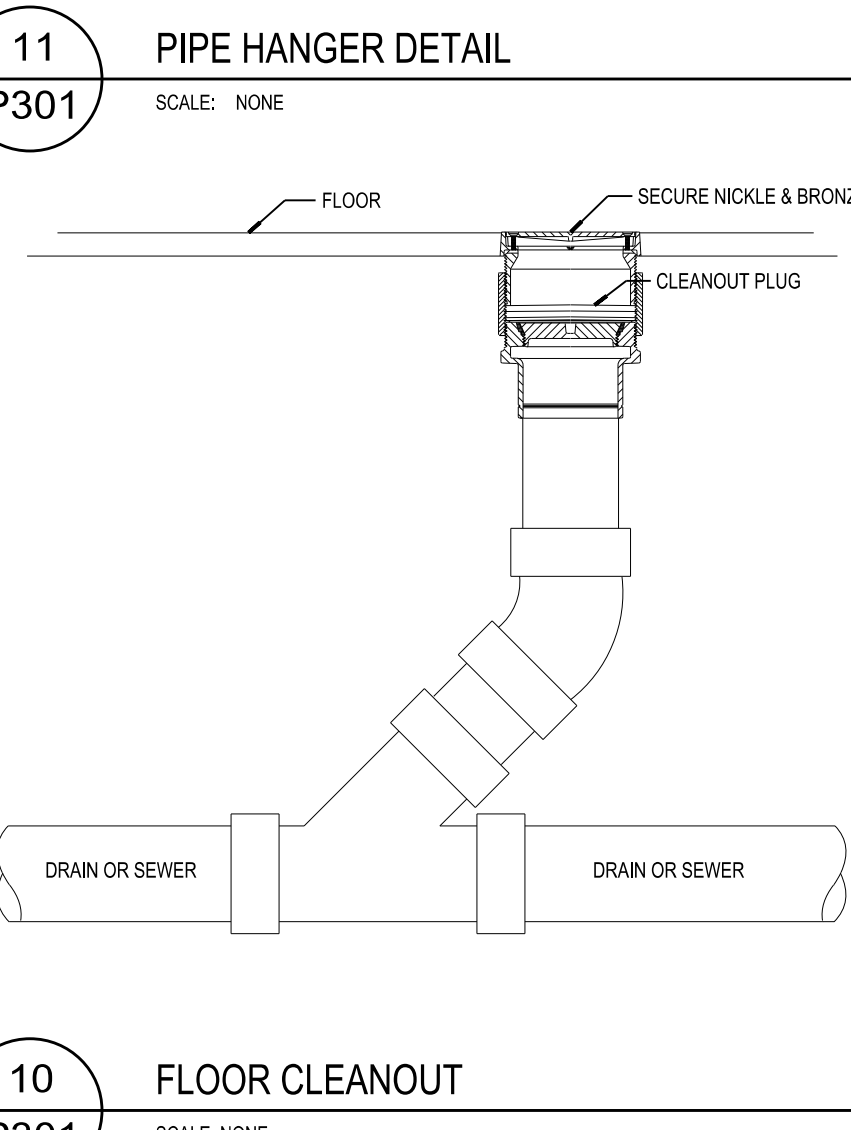
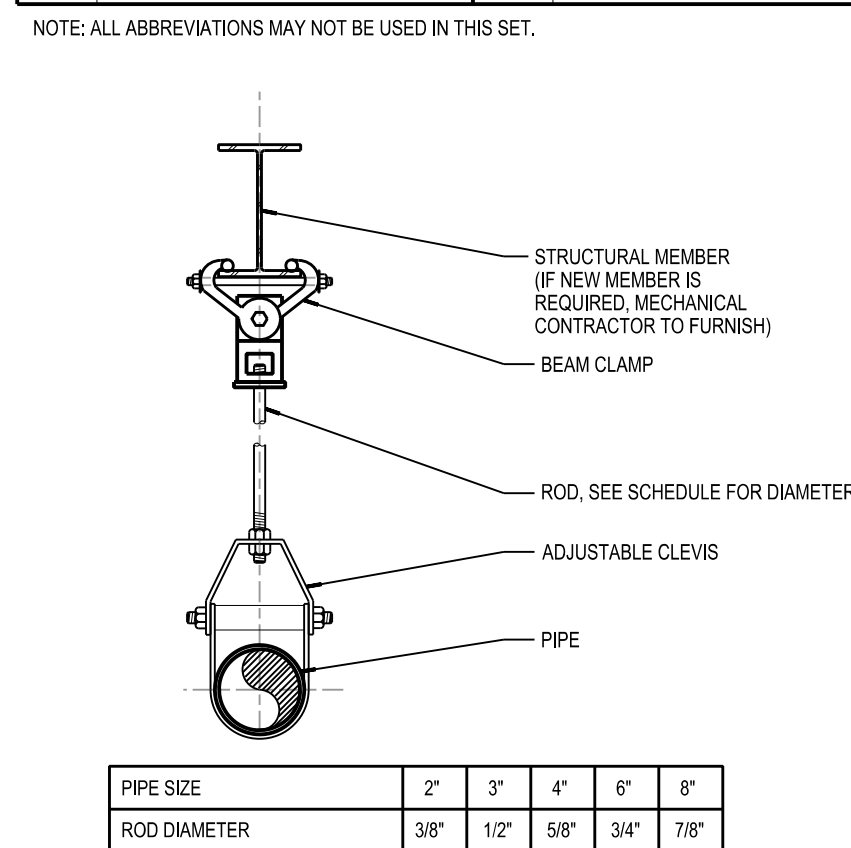
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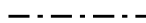
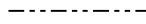
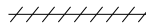
Water Calculation for		CITY OF MADISON WARM STORAGE BUILDING		Name of project	
INFORMATION REQUIRED TO CALCULATE WATER SERVICE SIZE					
1	Demand of Building in GPM	WSFUs	45.5 =	(GPM)	49
2	Difference in Elevation from main or external pressure tank to building control valve.			(feet)	10
3	(If the water source is lower than the control valve use negative # if higher than the control valve use positive #) Size of the Water Meter. (when applicable)				NA
4	Developed length from main or ext pressure tank to building control valve.				NA
5	LOW PRESSURE AVAILABLE AT NEW CONNECTION TO EXISTING WATER				60
CALCULATE WATER SERVICE PRESSURE LOSS					
6	Low pressure at main in street or external pressure tank.				60
7	Water service diameter is 6" Material is 32 psi	ductile iron	Pressure Loss	0 (decimal equivalent of service length, i.e.; 65ft = .65	0.00
			(Subtract line 7 from line 6)	Subtotal	60.00
8	Determine pressure gain or loss due to elevation, (multiply the value of # 2 above by .434		=		4.34
9	Available pressure after the building control valve. (Subtract or add line 8. Enter in B)			Subtotal	55.66
CALCULATE THE PRESSURE AVAILABLE FOR UNIFORM LOSS (VALUE OF A)					
B	Available Pressure after the building control valve	(from 9 above)		Value of B	55.66
C	Pressure Loss of water meter (when meter is required)	1"		Value of C	3.60
				Subtotal	52.06
D	Pressure at controlling fixture (Controlling fixture is EEWs-1 EMERGENCY EYE WASH)			Value of D	15.00
				Subtotal	37.06
E	Difference in elevation between the building control valve and the controlling fixture in feet	0 x .434		Value of E	0.00
				Subtotal	37.06
F	Pressure loss due to water treatment devices, instantaneous water heaters and backflow preventers which serve the controlling fixture. (Pressure loss due to INSTANTANEOUS WATER HEATER)			Value of F	0.00
				Subtotal	37.06
G	Pressure loss through tankless hot water heaters, combination boilers/hot water heaters, heat exchangers, Thermostatic mixing valves Hot Water WSFUs 10 convert to GPM 8 20 Pressure Loss			Value of G	17.06
				Subtotal	5.00
H	Developed length from the BUILDING CONTROL valve to the controlling fixture in ft.	31 X 1.5		Value of H	46.50
	(Water Dist Pipe Material is TYPE L COPPER		(Divide by the value of G)	Subtotal	0.11
A	Pressure available for uniform loss		A = A=		10.75 11

	METER
	ROOF DRAIN (ABOVE)
	BALL VALVE
	GATE VALVE
	CHECK VALVE
	BUTTERFLY VALVE
	NEEDLE VALVE
	CONTROL VALVE
	SOLENOID VALVE
	BACKFLOW PREVENTER
	RELIEF VALVE
	BALANCE VALVE
	TRIPLE DUTY VALVE
	BALL VALVE/PLUG VALVE
	WATER SERVICE VALVE
	CIRCUIT SETTER, GAS REGULATOR
	THRUST BLOCKING
	FLEXIBLE CONNECTOR
	THERMAL EXPANSION TANK
	HOSE BIBB
	FILTER-REGULATOR OILER AIR SET
	PRESSURE GAGE
	THERMOMETER
	CIRCULATION PUMP
	FLOOR DRAIN
	FLOOR CLEANOUT
	CLEANOUT, WALL CLEANOUT
	UNION CONNECTION
	FLANGED CONNECTION
	SANITARY RISE & CONNECTION
	HOT WATER DROP & CONNECTION
	COLD WATER DROP & CONNECTION
	WATER HAMMER ARRESTER (WHA-X) WHERE X= PDI DESIGNATION
	PIPE DROPS
	PIPE RISES
	VENT THROUGH ROOF
	POINT OF CONNECTION TO EXISTING, FIELD VERIFY
	BACKWATER VALVE

PLUMBING ABBREVIATION LEGEND

AAV	AUTOMATIC AIR VALVE	MFG	MANUFACTURER, MANUFACTURED
ABF	ABOVE FINISHED FLOOR	MPW	NON-PORTABLE WATER
BFP	BELOW FINISHED FLOOR	OC	ON CENTER
BRF	BRACK HORSERPOW	PC	PLUMBING CONTRACTOR
BOP	BOTTOM OF PIPE	PR	PRESSURE
CA	COMPRESSED AIR	PRD	PRESSURE DROP
CO	CLEANOUT	PERF	PERFORATED
COMP	COMPRESSOR	POC	POINT OF CONNECTION
CONN	CONNECTION	PSI	POUNDS PER SQUARE INCH GAGE
COEFF	COEFFICIENT OF PERFORMANCE	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
COW	COLD WATER	PSIG	POUNDS PER SQUARE INCH GAGE
CWW	CLEAR WATER WASTE	RC	ROOFING CONTRACTOR
D	DIAMETER	RD	ROAD DRAIN
DCT	DOMESTIC COLD WATER	RET	RETURN
DET	DETAIL	SAN	SANITARY SEWER
DM	DRAINAGE EXISTENCE UNIT	SFU	WATER SUPPLY/FUTURE UNIT
DHW	DOMESTIC HOT WATER	SOV	SHUT-OFF VALVE
DHWIR	DOMESTIC HOT WATER RETURN	SP	SPINDRIP
DTH	DOMESTIC TEMPERED WATER	STM	STORM SEWER
E	ELECTRICAL CONTRACTOR	STM	STEAM
ELEV	ELEVATION	SUP	SUPPLY
EWI	ENTERING WATER TEMPERATURE	TC	TEMPERATURE CONTROLS CONTRACTOR
EX	EXISTING	TDB	TOTAL DYNAMIC HEAD
FCO	FLOOR CLEANOUT	TDH	TO FLOOR ABOVE
FD	FLOOR DRAIN	TDH	TO FLOOR BELOW
FLA	FROM FLOOR ABOVE	THRU	THROUGH
FLB	FROM FLOOR BELOW	TM	TEMPEROSTATIC MIXING VALVE
FLL	FULL LOAD FLOPS	TTST	TERMOSTAT
FG	FIRE PROTECTION CONTRACTOR	TYC	TYPICAL
GA	GAS	TEMP	TEMPERATURE AND PRESSURE
GAGE	GAGE	T/C	TIME CLOCK
GEN	GENERAL CONTRACTOR	UF	UNDERFLOOR
GI	GREASE INTERCEPTOR	UP	UNDERGROUND
GPM	GALLONS PER MINUTE	VS	SANITARY VENT
GYP	GYPSON WALL BOARD	VTR	VENT THROUGH ROOF
HP	HORSEPOWER	W	WASTE
I	INVERT ELEVATION	WC	WATER COLUMN PRESSURE
IND	INDIRECT WASTE	WCW	WALL CLEANOUT
LWT	LEAVING WATER TEMP.	WG	WATER GAGE PRESSURE
MAN	MANUAL AIR VALVE	WHA	WATER HAMMER ARRESTER
MAY	THOUSAND BTU PER HOUR	WH	WITH
MB	MECHANICAL CONTRACTOR	WO	WITHOUT



PLUMBING LINE LEGEND	
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
	DOMESTIC TEMPERED WATER SUPPLY
	DOMESTIC TEMPERED WATER RETURN
	SANITARY SEWER
	SANITARY SEWER (UNDERGROUND OR UNDERFLOOR)
	SANITARY VENT
	STORM DRAIN
	STORM DRAIN (UNDERGROUND OR UNDERFLOOR)
	COMPRESSED AIR
	PIPE TO BE DEMOLISHED
	PIPE TO BE ABANDONED IN PLACE

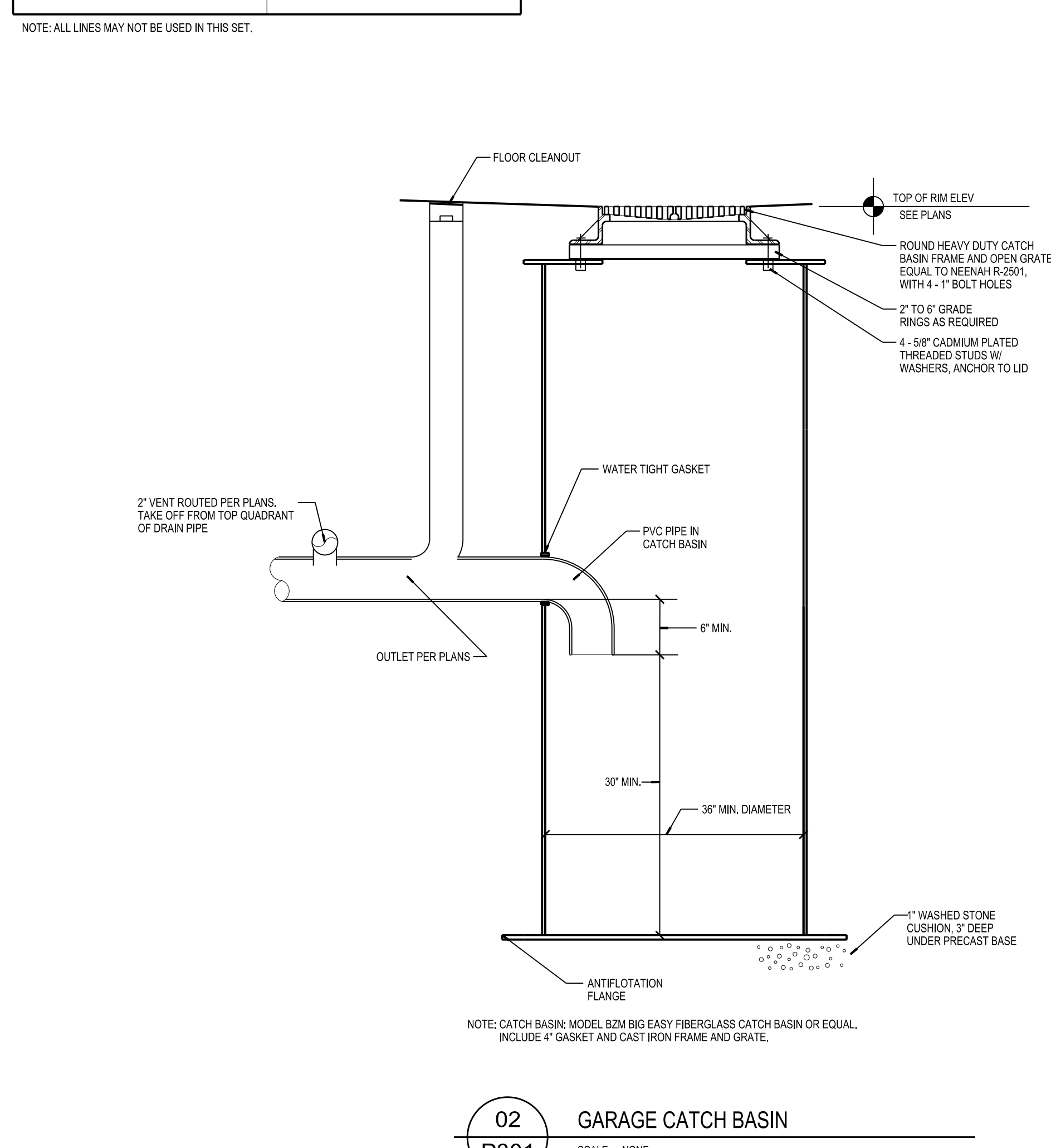


Table 82-40-5 MAXIMUM ALLOWABLE LOAD FOR COPPER TUBING—TYPE L, ASTM B88; (C=150)																																				
Pressure Loss Due to Friction (in lbs. per 100 ft. of length)	Pipe Diameter (in inches)																																			
	1/2"				3/4"				1"				1 1/4"				1 1/2"				2"				2 1/2"				3"				4"			
	WSFU		GPM		WSFU		GPM		WSFU		GPM		WSFU		GPM		WSFU		GPM		WSFU		GPM		WSFU		GPM		WSFU		GPM					
	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT					
0.5	0.5	0.5	2.0	4.0	0.5	0.5	2.0	4.0	0.5	0.5	2.0	4.0	0.5	0.5	2.0	4.0	0.5	0.5	2.0	4.0	0.5	0.5	2.0	4.0	0.5	0.5	2.0	4.0	0.5	0.5	2.0	4.0				
1	1.0	—	1.0	2.5	—	2.5	5.5	—	6.5	10.0	4.0	13.0	16.0	5.0	23.0	33.0	7.5	17.5	63.0	59.0	72.0	170	94.0	211	345	198	909	927	192	—	—	—				
2	1.5	—	1.5	4.0	—	4.0	8.5	—	10.5	14.5	4.5	20.5	23.0	7.5	37.0	48.0	44.0	24.0	86.0	175	305	137	468	568	288	1694	169	—	—	—	—	—				
3	2.0	—	2.0	5.0	—	6.0	10.5	4.0	14.0	18.5	6.0	27.5	29.0	12.5	52.0	60.0	75.0	175	107	283	410	169	698	752	298	1792	179	—	—	—	—					
4	2.0	—	2.0	6.0	—	7.0	12.0	4.0	16.5	21.5	7.0	33.0	34.0	15.5	66.0	70.0	108	225	119	356	469	—	NP	—	—	—	—	—	—	—	—					
5	2.5	—	2.5	6.5	—	8.0	14.0	4.5	20.0	24.0	8.0	40.0	38.0	26.0	80.0	77.0	136	260	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
6	2.5	—	2.5	7.5	—	9.5	15.5	5.0	22.5	26.0	9.0	45.0	42.0	33.0	100	—	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—					
7	3.0	—	3.0	8.0	—	10.0	16.5	5.5	24.0	29.0	12.5	52.0	44.0	37.0	107	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
8	3.0	—	3.0	8.5	—	10.5	18.0	6.0	26.5	31.0	15.0	58.0	NP	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
9	3.5	—	3.5	9.5	—	12.5	19.0	6.0	28.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
10	3.5	—	3.5	10.0	4.0	13.0	20.0	6.5	30.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
11	4.0	—	4.0	10.5	4.0	14.0	20.5	6.5	31.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
12	4.0	—	4.0	11.0	4.0	15.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
13	4.0	—	4.0	11.5	4.0	15.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
14	4.5	—	4.0	12.0	4.0	16.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
15	4.5	—	4.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
16	5.0	—	6.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
17	5.0	—	6.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
18	5.0	—	6.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
19	5.0	—	6.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
20	5.5	—	6.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—				
	NP																																			

Note:WSFU means water supply fixture units.

GPM means gallons per minute.

FT means predominantly flush-type water closets or syphon jet urinals.

FM means predominantly flush tank type water closets or wash down urinals.

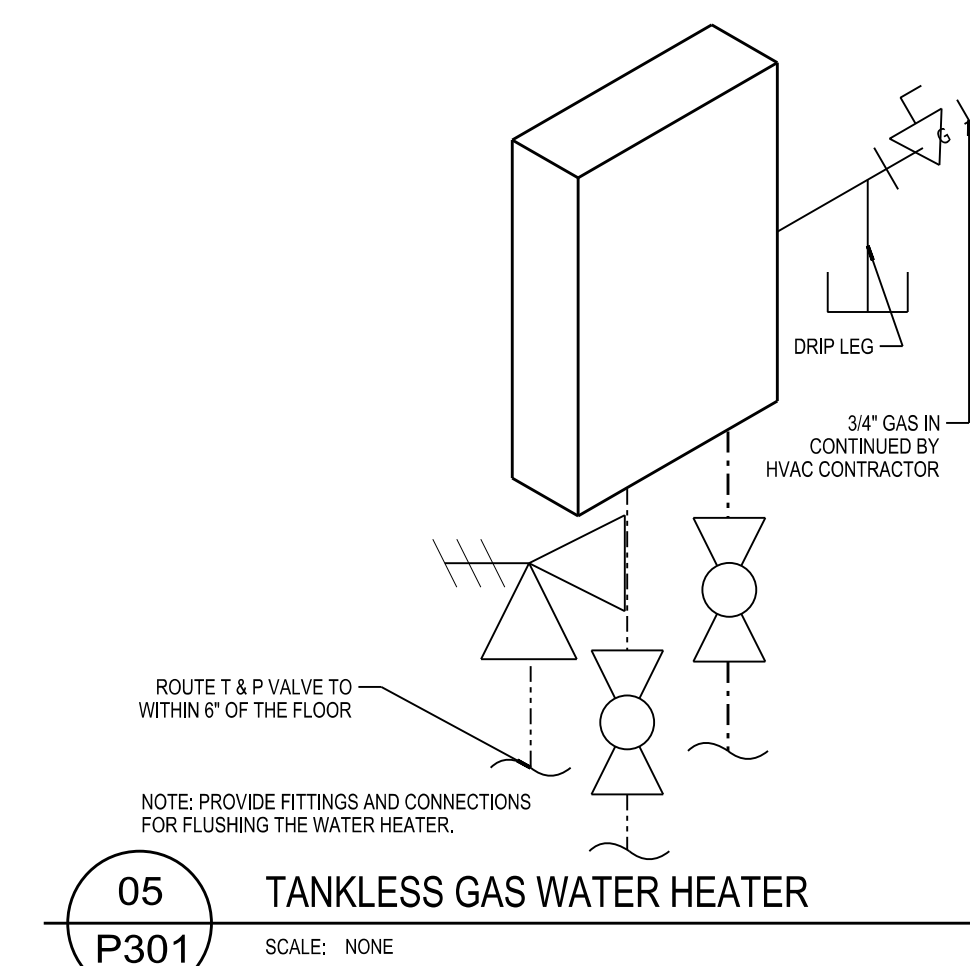
NP means not permitted, velocities exceed 8 feet per second.

For using this table, round the calculated pressure loss due to friction to the next higher number shown.

Comm 82-40 (7) (f) and (g) specifies minimum sizes for water distribution piping.

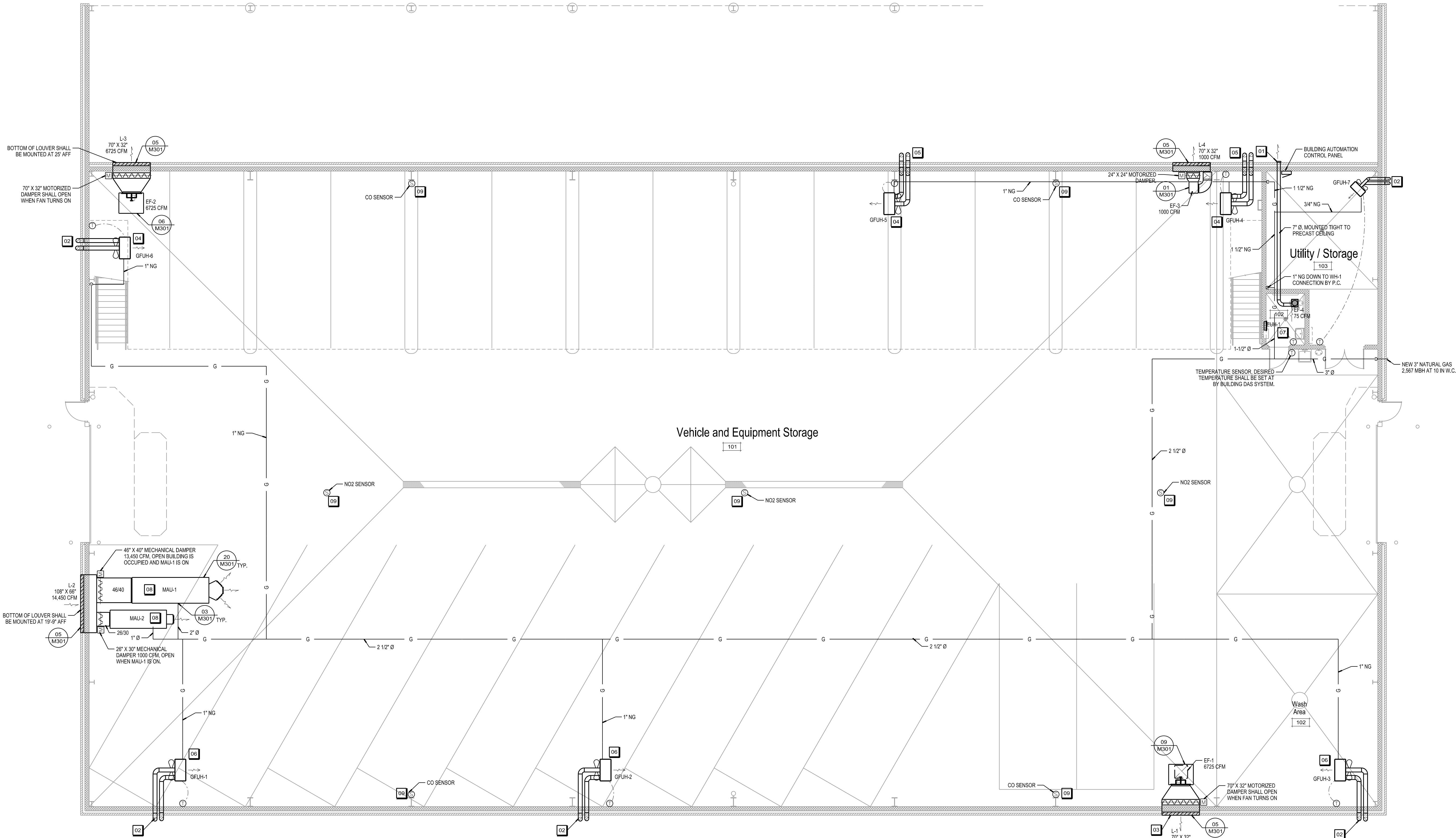
PLUMBING FIXTURE CONNECTION SCHEDULE AND FIXTURE UNIT VALUES														
TAG	DESCRIPTION	CONNECTIONS				SFU				DFU				
		WASTE	HOT/TEMPERED	COLD	HOT/TEMPERED	COLD	SUBTOTAL	FIXTURES	H/T SUBTOTAL	COLD SUBTOTAL	TOTAL	VALUE	FIXTURES	TOTAL
CB-1	CATCH BASIN								0	0	0	4	2	8
EEW-1	EMERGENCY EYE WASH	1/2"	1/2"	1/2"	4		6	1	4	4	6	2	1	2
F-1-1	FLOOR DRAIN	3"							0	0	0	3	1	3
HB-1	EXTERIOR FROST PROOF HOSE BIBB			3/4"		4	4	1	0	4	4			0
HB-2	INTERIOR HOSE BIBB			3/4"		4	4	6	0	24	24			0
LAV-1	LAVATORY (WALL MOUNT)	1-1/2"	1/2"	1/2"	1	1	2	1	1	1	2	1	1	1
S-1	SERVICE SINK	1-1/2"	1/2"	1/2"	2	2	3	1	2	2	3	2	1	2
WC-1	ADA FLOOR MOUNT FLUSH VALVE 1.28GPF	4"		1"		6.5	6.5	1	0	6.5	6.5			0
TOTALS							11	7	41.5	45.5		6	16	

WATER HEATER SCHEDULE								
Tag	Manuf.	Model #	FUEL	BTUH	GPM RECOVERY @ 70 DEG RISE	Phase	Voltage	COMMENTS
WH-1	TAKAGI	T-M32 ASME	NATURAL GAS	199000.00	5.30	1	120	PROVIDE ALL PIPE VALVES AND FITTINGS FOR FULLY FUNCTIONAL SAFE OPERATION. PROVIDE ALL VENT PIPE AND TERMINALS PER MANUFACTURERS RECOMMENDATIONS.



ORIGINAL SIZE = 24" X 36"
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SCALE: 1/8"=1'-0"
PLOTTED BY: BAW



GENERAL NOTES

1. MAKE UP AIR UNITS AND EXHAUST FANS SHALL BE SUPPORTED FROM PERLINS ACCORDING TO DETAIL 11/M301 OR METAL BUILDING SUPPLIER'S RECOMMENDATIONS.

KEYNOTES

- 01 PROVIDE ARCHITECTURAL APPROVED SIDE WALL RELIEF WITH BUILT IN BACK DRAFT DAMPER INSTALLED PER MANUFACTURER INSTRUCTIONS.
- 02 UNIT HEATER FLUE AND COMBUSTION AIR VENTS TO BE ROUTED PER MANUFACTURERS RECOMENDATION AND TERMINATED WITH WALL CAP.
- 03 BOTTOM OF LOUVER SHALL BE MOUNTED AT 21" AFF.
- 04 LOCATE GFUH-4, 5 AND 6 UNDER MEZZANINE, TOP OF UNIT SHALL BE MOUNTED 6" BELOW PRECAST CONCRETE DECK.
- 05 ROUTE FLUE AND COMBUSTION AIR DUCTS UP THROUGH PRECAST MEZZANINE FLOOR AND TERMINATE OUT SIDEWALL, ABOVE EXTERIOR COVERED STORAGE ROOF.
- 06 LOCATE BOTTOM OF GFUH-1, GFUH-2 AND GFUH-3 AT 17 FEET AFF.
- 07 ELECTRIC UNIT HEATER, EUH-1 TO BE CONTROLLED BY BAS.
- 08 PROVIDE VIBRATION ISOLATION AT MAKE UP AIR UNITS PER SPECIFICATION SECTION 23 00 00.
- 09 LOCATE AND MOUNT CO AND NO2 SENSORS PER MANUFACTURERS RECOMMENDED INSTALLATION INSTRUCTIONS FOR FULL COVERAGE OF THE VEHICLE STORAGE AREA.

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ISSUANCES		REVISIONS
UDC FINAL APPROVAL SUBMITTAL - 07/17/2012		
DESIGN DEVELOPMENT PACKET - 08/23/2012		
100% CONSTRUCTION DOCUMENTS 08.31.2012		
Dept. of Commerce Plan Review - 08/13/2012		
Bid Construction - 08/14/2013		

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CITY OF MADISON
MADISON, WISCONSIN

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PROJECT NUMBER 48150	APPROVED BY JLH	REVIEWED BY JCT	DRAWN BY JTL
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HVAC
FLOOR PLAN

M100



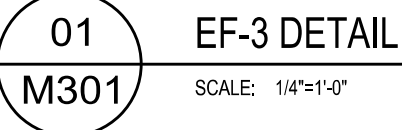
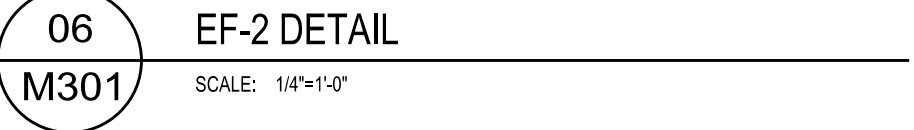
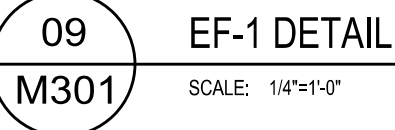
LOUVER SCHEDULE					
TAG	ROOM LOCATION	SIZE W" X H"	TYPE	CONSTRUCTION	MANUFACTURER & MODEL NUMBER
L-1	VEHICLE STORAGE	70" X 32"	DRAINABLE BLADE	EXTRUDED ALUMINUM	GREENHECK ESD-603
L-2	VEHICLE STORAGE	108" X 66"	DRAINABLE BLADE	EXTRUDED ALUMINUM	GREENHECK ESD-603
L-3	VEHICLE STORAGE	70" X 32"	DRAINABLE BLADE	EXTRUDED ALUMINUM	GREENHECK ESD-603
L-4	VEHICLE STORAGE	70" X 32"	DRAINABLE BLADE	EXTRUDED ALUMINUM	GREENHECK ESD-603

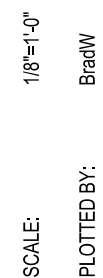
ELECTRIC UNIT HEATER SCHEDULE						
TAG	ROOM LOCATION	WATTS	VOLTS	AMPS	BTU / HR OUTPUT	MANUFACTURER & MODEL NUMBER
EUH-1	TOILET	4,000/2,000	208/1/60	19.2/9.6	13,652/6,826	BERKO FRA-4020

NOTE: HEATER TO BE TIED INTO BUILDING BAS SYSTEM.

Diagram illustrating the installation of a side-winder hanger for a metal roof. The assembly includes:

- METAL ROOF PER METAL BUILDING SUPPLIER
- NOTE: MAXIMUM CAPACITY OF HANGER IS 500 LBS.
- PURLIN PER METAL BUILDING SUPPLIER
- SAMMY X-PRESS SIDEWINDER PIPE HANGER MODEL SWXP 35
- 3/8" ROD
- UNI-STRUT (OR SIMILAR) BY MECHANICAL CONTRACTOR





ELECTRICAL PLAN

NORTH

SCALE: 1/8"=1'-0"

0 4' 8' 12'

E101

SOUTH POINT ROAD PUBLIC WORKS STORAGE BUILDING CITY OF MADISON MADISON, WISCONSIN

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PROJECT NUMBER
49150

APPROVED BY
JLT

REVIEWED BY
JCT

DRAWN BY
ATW

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Electrical Plan

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100% CONSTRUCTION DOCUMENTS 08.31.2012	
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Build Construction - 06/14/2013	
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SOUTH POINT ROAD
PUBLIC WORKS STORAGE BUILDING
CITY OF MADISON
MADISON, WISCONSIN

PROJECT NUMBER 48150	APPROVED BY JLH	REVIEWED BY JCT	DRAWN BY ATW
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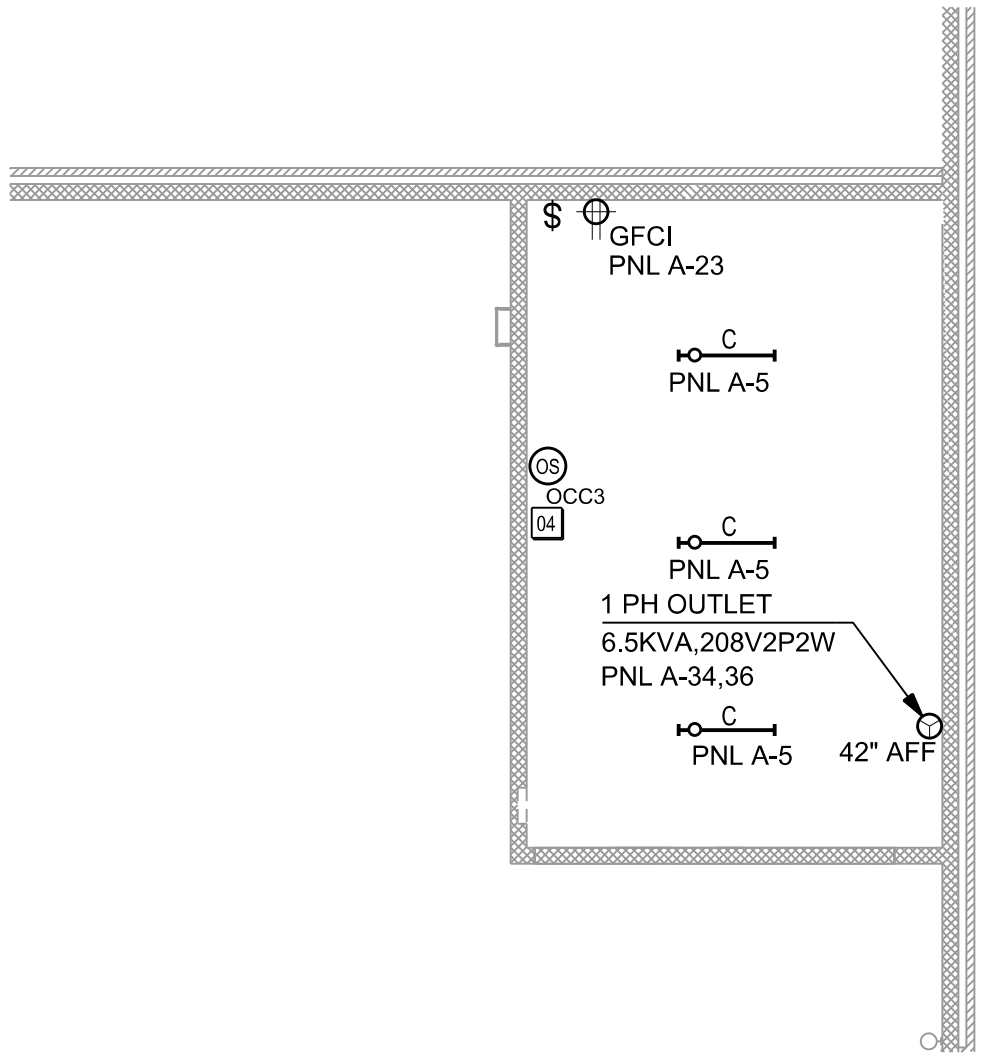
ELECTRICAL PLAN

E101

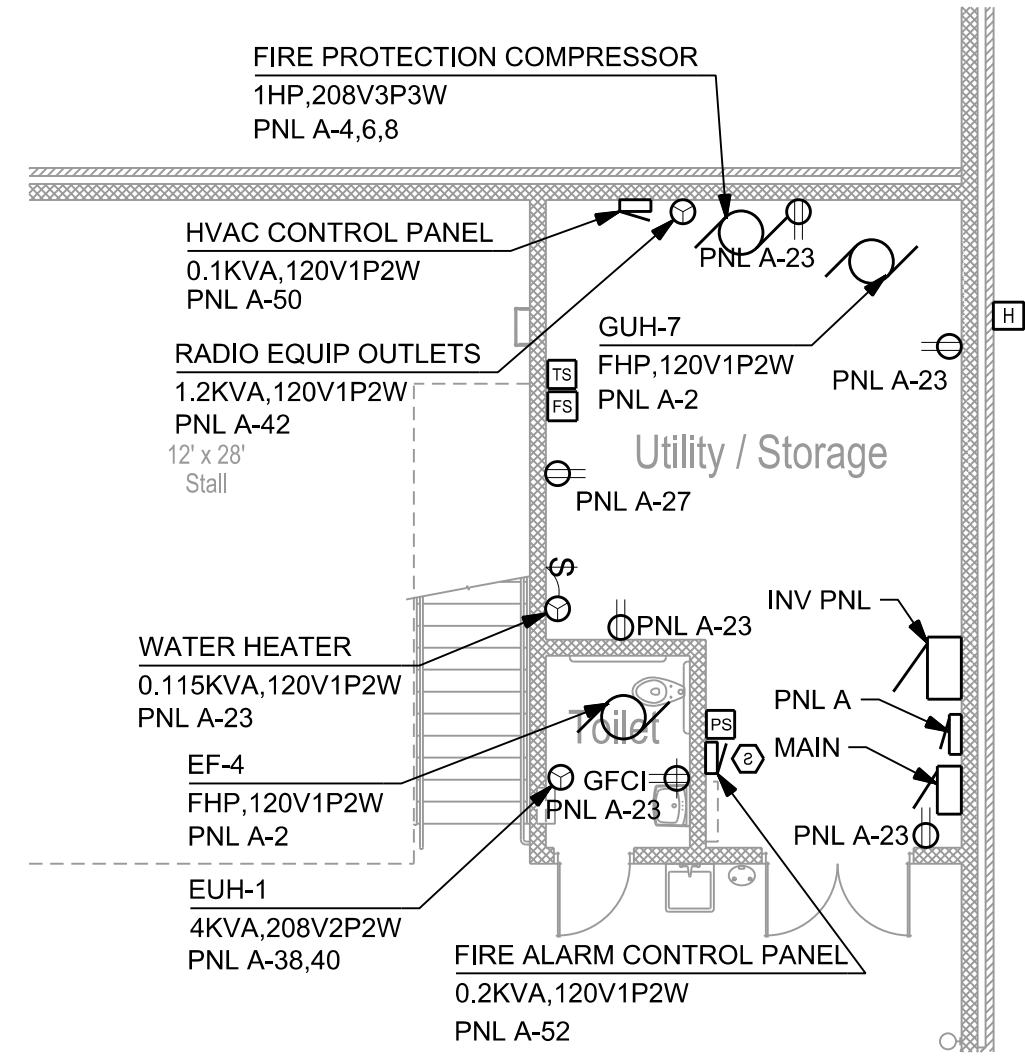
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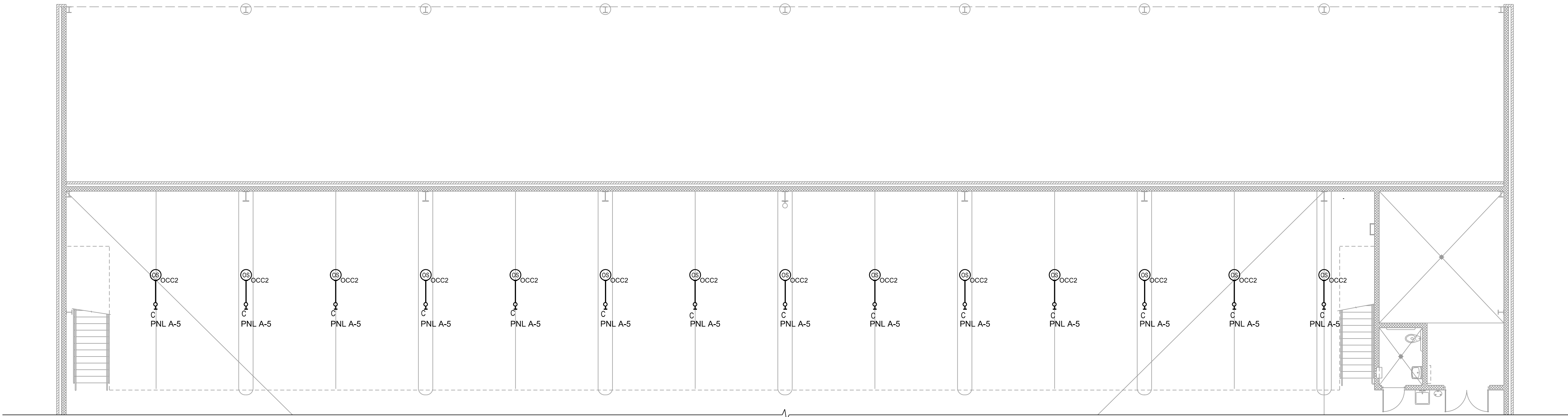
KEYNOTE	NOTE TEXT
01	SEE DETAIL 05/E102 FOR POWER AND SYSTEMS IN UTILITY ROOM
02	SEE DETAIL 13/E102 FOR LIGHTING ABOVE UTILITY ROOM
03	CONNECT IN PARALLEL WITH ALL OTHER TYPE 5 OCCUPANCY SENSORS TO TWO WIRE HVAC CONTROL LOOP. POWER SUPPLY FROM HVAC CONTROL PANEL CIRCUIT.
04	INSTALL MASKING TO PROVIDE 180 DEGREE COVERAGE OF THE MEZZANINE AREA ONLY
05	SWITCHES TO BE CONNECTED AHEAD OF AUTOMATIC CONTROLS FOR LIGHTING CIRCUITS: a - CKT 1 & b - CKT 3 (BASE BID) AND c - CKT5 (MEZZANINE ALTERNATE)
06	FIXTURES IN THIS ZONE TO BE CONTROLLED BY OCCUPANCY SENSORS IN THIS ZONE



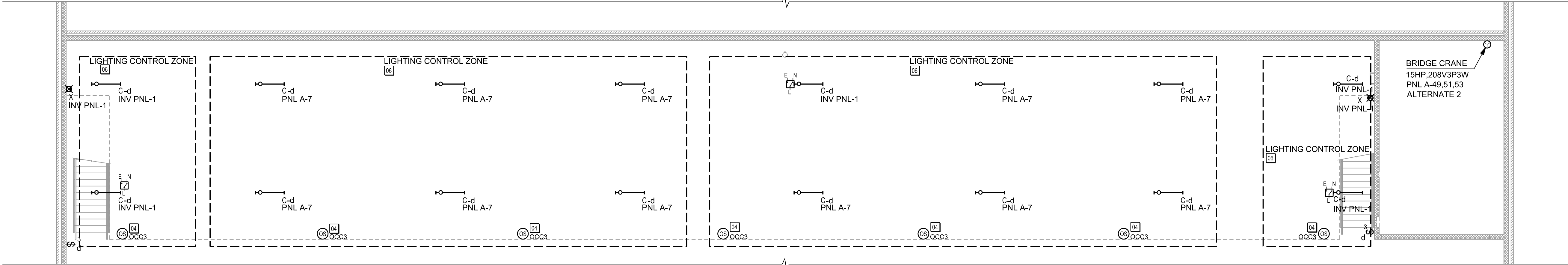
13
E102
PARTIAL ELECTRICAL PLAN ABOVE
UTILITY STORAGE ROOM - BASE BID
SCALE: 1/8"=1'-0"



05
E102
PARTIAL POWER AND SYSTEMS PLAN
UTILITY STORAGE ROOM - BASE BID
SCALE: 1/8"=1'-0"



PARTIAL ELECTRICAL PLAN
ALTERNATE #1 BELOW MEZZANINE
SCALE: 1/8"=1'-0"



PARTIAL ELECTRICAL PLAN
ALTERNATES #1 & #2 ABOVE MEZZANINE
SCALE: 1/8"=1'-0"

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PROJECT NUMBER 48150	APPROVED BY JLH	REVIEWED BY JCT	DRAWN BY ATW	6/14/2013 1:38:22 PM
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PARTIAL
ELECTRICAL
PLANS

SOUTH POINT ROAD
PUBLIC WORKS STORAGE BUILDING
CITY OF MADISON
MADISON, WISCONSIN

Angus
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Balance in Creativity
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100% CONSTRUCTION DOCUMENTS 08.31.2012	
Dept. of Commerce Plan Review - 08/13/2012	
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SCALE: 1/8"=1'-0"
BrewW
PLOTTED BY:

ORIGINAL SIZE = 24" x 36"
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RECEPTACLE SCHEDULE						
CALLOUT	SYMBOL	NEMA	VOLTS	NOTE 1	NOTE 2	QUANTITY
RAISED DOUBLE DUPLEX		5-20R	120V 1P 2W	MOUNT @ 48" TO CENTER UNLESS NOTED OTHERWISE	TWO DUPLEX RECEPTACLES MOUNTED UNDER THE SAME FACE PLATE	NOT USED
RAISED GFCI DOUBLE DUPLEX	GFCI	5-20R	120V 1P 2W	MOUNT @ 48" TO CENTER UNLESS NOTED OTHERWISE	TWO GFCI DUPLEX RECEPTACLES MOUNTED UNDER THE SAME FACE PLATE	13
RAISED GFCI DUPLEX	GFCI	5-20R	120V 1P 2W	MOUNT @ 48" TO CENTER UNLESS NOTED OTHERWISE		5
SPECIAL RECEPTACLE - ELECTRIC WATER COOLER	EWC	5-20R	120V 1P 2W	COORDINATE MOUNTING LOCATION WITH EQUIPMENT SHOP DRAWINGS.		NOT USED
STANDARD DUPLEX		5-20R	120V 1P 2W	MOUNT @ 16" TO CENTER UNLESS NOTED OTHERWISE		5
WEATHERPROOF GFCI DUPLEX	WP/GFCI	5-20R	120V 1P 2W	MOUNT @ 24" TO CENTER UNLESS NOTED OTHERWISE	PROVIDE WITH IN-USE WEATHER PROOF COVER	2

CONTROL SCHEDULE

CALLOUT	SYMBOL	NOTE 1	NOTE 2	NOTE 3	QUANTITY
1 POLE SWITCH		MOUNT AT 48" TO CENTER UNLESS OTHERWISE NOTED	LOWER CASE LETTER INDICATES FIXTURES CONTROLLED BY THIS SWITCH		7
3 WAY SWITCH	3	MOUNT AT 48" TO CENTER UNLESS OTHERWISE NOTED	LOWER CASE LETTER INDICATES FIXTURES CONTROLLED BY THIS SWITCH		3
EMERGENCY SHUNT RELAY	E N T	UL 924 RELAY MOUNTED ON FIXTURE OR JUNCTION BOX NEAR FIXTURE(S) TO BE CONTROLLED	CONNECT DESIGNATED FIXTURE(S) THROUGH EMERGENCY RELAY TO SWITCH TO UNSWITCHED INVERTER SOURE UPON FAILURE OF UNSWITCHED NORMAL SOURCE	WATTSTOPPER ELCU-200	7
OCC 1	OCC1	OCCUPANCY SENSOR - LINE VOLTAGE HIGH BAY FIXTURE MOUNT, LOW TEMP	PHOTO SENSOR FOR DAYLIGHTING CONTROL	SENSORSWITCH CMRB 6 P LT WITH EXTENSION TO BE LEVEL WITH BOTTOM OF FIXTURE	31
OCC 2	OCC2	OCCUPANCY SENSOR - LINE VOLTAGE FIXTURE MOUNT, LOW TEMP	SENSORSWITCH CMRB 9 LT WITH EXTENSION TO BE LEVEL WITH BOTTOM OF FIXTURE		14
OCC 3	OCC3	OCCUPANCY SENSOR - LINE VOLTAGEEXTENDED RANGE CEILING, LOW TEMPERATURE	PHOTO SENSOR FOR DAYLIGHTING CONTROL	SENSORSWITCH CMR 10 P LT	10
OCC 5	OCC5	OCCUPANCY SENSOR - EXTENDED RANGE CEILING	USE FOR HVAC CONTROL ONLY	WATTSTOPPER CI-200	5

FIRE ALARM DEVICE SCHEDULE

CALLOUT	SYMBOL	NOTE 1	QUANTITY
Audio / Visual Alarm		NUMBER INDICATES CANDELA RATING	1
Manual Alarm Station		LOCATE ADJACENT TO FIRE ALARM PANEL	1
Post Indicator Valve		PROVIDE CONTROL MODULE TO INTERFACE WITH FIRE ALARM PANEL	1
Smoke Detector		LOCATE WITHIN 5' OF FIRE ALARM PANEL	1
Water Flow Switch		PROVIDE CONTROL MODULE TO INTERFACE WITH FIRE ALARM PANEL	1

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	DESCRIPTION	MODEL	LAMP	BALLAST	MOUNTING	INPUT WATTS	VOLTS	NOTE 1	NOTE 2	QUANTITY
A		2 LAMP INDUSTRIAL HIGH BAY	LITHONIA FHI4 2 54T5HO S1X20 MVOLT	(2) 54W GE STARCOAT F54W/T5/840	GE ULTRASTART BALLAST FACTOR 1.0	CEILING	121	120V 1P 2W	PROVIDE WITH CORD AND PLUG CONNECTION	SEE LIGHTING CONTROL SCHEDULE FOR CONTRACTOR INSTALLED SENSORS AND/OR RELAYS	31
B		FLUORESCENT STRIP	LITHONIA SB 2 32 MVOLTGEB1015	(2) 32W GE STARCOAT F32T8/XL/SPX41/HL	GE ULTRASTART BALLAST FACTOR 1.0	CEILING	59	120V 1P 2W			1
C		SURFACE WRAP AROUND	LITHONIA Z 2 32 MVOLTGEB1015 SMR SSR	(2) 32W GE STARCOAT F32T8/XL/SPX41/HL	GE ULTRASTART BALLAST FACTOR 1.0	CEILING	59	120V 1P 2W	SEE LIGHTING CONTROL SCHEDULE FOR CONTRACTOR INSTALLED SENSORS AND/OR RELAYS		38
OA		EXTERIOR WALL MOUNT	CREE/BETA SEC-EDG-4MB-WM-02-D-UL-BZ-ML	(1) 44W LED	ELECTRONIC	WALL	44	120V 1P 2W			5
OB		EXTERIOR CEILING	CREE/BETA CAN-EDG-5M-DM-02-ML	(20) 2W LED	ELECTRONIC	CEILING	44	120V 1P 2W			4
X		UNIVERSAL MOUNT EXIT LIGHT	LITHONIA LQM	(1) 2W LED	ELECTRONIC	WALL/CEILING	2	120V 1P 2W			4

GENERAL EQUIPMENT SCHEDULE

CALLOUT	SYMBOL	VOLTS	AMPS	KVA	HP	CIRCUIT	NOTE 1	NOTE 2
1 PH OUTLET		208V 2P 2W	31.25	6.5		PNL A-34,36	COORDINATE OUTLET CONFIGURATION AND LOCATION WITH OWNER REP	
3 PH OUTLET		208V 3P 3W	38.86	14		PNL A-31,33,35	COORDINATE OUTLET CONFIGURATION AND LOCATION WITH OWNER REP	
BRIDGE CRANE		208V 3P 3W	48.46	17.46	15 HP	PNL A-49,51,53	INCLUDE IN ALTERNATE BID 2	
FIRE ALARM CONTROL PANEL		120V 1P 2W	2.08	0.2		PNL A-52	PROVIDE HANDLE LOCK ON CIRCUIT BREAKER FEEDING PANEL	
FIRE PROTECTION COMPRESSOR		208V 3P 3W	6.06	1.75	1 HP	PNL A-4,6,8	PROVIDE FUSED DISCONNECT AT UNIT	
OHD 1		208V 3P 3W	6.06	1.75	1 HP	PNL A-28,30,32	EC TO PROVIDE AND INSTALL PVC LOOP IN SLAB FOR VEHICLE DETECTOR AND INSTALL ALL CONTROL DEVICES PROVIDED BY DOOR INSTALLER.	PROVIDE NON-FUSED DISCONNECT AT UNIT
OHD 2		208V 3P 3W	6.06	1.75	1 HP	PNL A-28,30,32	EC TO PROVIDE AND INSTALL PVC LOOP IN SLAB FOR VEHICLE DETECTOR AND INSTALL ALL CONTROL DEVICES PROVIDED BY DOOR INSTALLER.	PROVIDE NON-FUSED DISCONNECT AT UNIT
RADIO EQUIP OUTLETS		120V 1P 2W	10	1.2		PNL A-42	PROVIDE DOUBLE DUPLEX RECEPTACLES	COORDINATE LOCATION WITH OWNER REP
WATER HEATER		120V 1P 2W	1.2	0.12		PNL A-23	PROVIDE SWITCH AT UNIT	

HVAC EQUIPMENT SCHEDULE

CALLOUT	SYMBOL	VOLTS	CALCULATED AMPS	KVA	HP	CIRCUIT	NOTE 1	NOTE 2
EF-1		208V 3P 3W	6.06	1.75	1 HP	PNL A-10,12,14	PROVIDE LOCKABLE COMBINATION STARTER ADJACENT TO HVAC CONTROL PANEL	
EF-2		208V 3P 3W	6.06	1.75	1 HP	PNL A-16,18,20	PROVIDE LOCKABLE COMBINATION STARTER ADJACENT TO HVAC CONTROL PANEL	
EF-3		120V 1P 2W	7.25	0.7	1/4 HP	PNL A-2	PROVIDE MANUAL STARTER AT UNIT	
EF-4		120V 1P 2W	1.04	0.1	F HP	PNL A-2	PROVIDE SWITCH AT UNIT	FAN TO OPERATE WITH OCCUPANCY SENSOR CONTROLLING LIGHT IN TOILET ROOM
EUH-1		208V 2P 2W	19.23	4		PNL A-38,40	PROVIDE TWO POLE DISCONNECT IN UNIT	
GUH-1		208V 3P 3W	2.99	0.86	1/3 HP	PNL A-22,24,26	PROVIDE NON-FUSED DISCONNECT AT UNIT	
GUH-2		208V 3P 3W	2.99	0.86	1/3 HP	PNL A-16,18,20	PROVIDE NON-FUSED DISCONNECT AT UNIT	
GUH-3		208V 3P 3W	2.99	0.86	1/3 HP	PNL A-10,12,14	PROVIDE NON-FUSED DISCONNECT AT UNIT	
GUH-4		208V 3P 3W	1.83	0.53	1/6 HP	PNL A-37,39,41	PROVIDE NON-FUSED DISCONNECT AT UNIT	
GUH-5		208V 3P 3W	1.83	0.53	1/6 HP		PROVIDE NON-FUSED DISCONNECT AT UNIT	
GUH-6		208V 3P 3W	1.83	0.53	1/6 HP		PROVIDE NON-FUSED DISCONNECT AT UNIT	
GUH-7		120V 1P 2W	1.04	0.1	F HP	PNL A-2	PROVIDE MANUAL MOTOR STARTER ADJACENT TO UNIT	
HVAC CONTROL PANEL		120V 1P 2W	0.83	0.1		PNL A-50	PROVIDE TWO #14 CONDUCTORS ROUTED IN CONDUIT TO INDICATED OCCUPANCY SENSOR AUX RELAYS FOR HVAC CONTROL LOOP	
MAU-1		208V 3P 3W	60.58	17.46	15 HP	PNL A-43,45,47	PROVIDE NON-FUSED DISCONNECT AT UNIT	
MAU-2		208V 3P 3W	4.62	1.33	3/4 HP	PNL A-22,24,26	PROVIDE NON-FUSED DISCONNECT AT UNIT	

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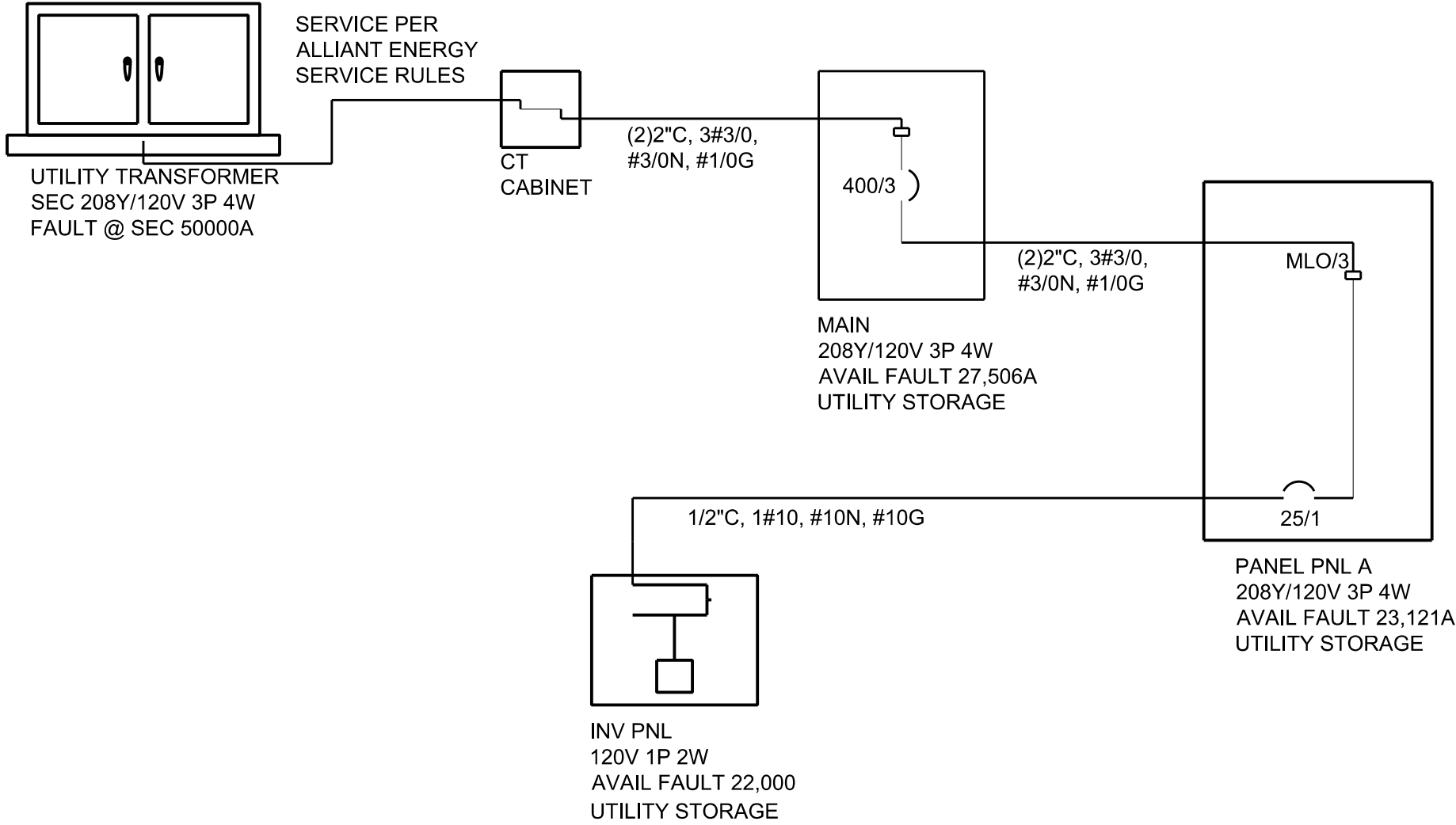
**SOUTH POINT ROAD
PUBLIC WORKS STORAGE BUILDING
CITY OF MADISON
MADISON, WISCONSIN**

PROJECT NUMBER 48150	APPROVED BY JLH	REVIEWED BY JCT	DRAWN BY ATW	ELECTRICAL SCHEDULES
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E301

SCALE: 1/8"=1'-0"
PLOTTED BY: BAW

ORIGINAL SIZE = 24" x 36"
X:\4815\cam\481506e3302.dgn



PNL A

ROOM UTILITY STORAGE			VOLTS 208Y/120V 3P 4W			AIC 22,000					
MOUNTING SURFACE			BUS AMPS 400			MAIN BKR MLO					
FED FROM MAIN			NEUTRAL 100%			LUGS STANDARD					
NOTE											
CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD			CKT #	CKT BKR	CIRCUIT DESCRIPTION	KVA LOAD		
			A	B	C				A	B	C
1	20/1	LIGHTING	1.57			2	20/1	LIGHTING, EF-4, GUH-7, EF-3	0.955		
3	20/1	LIGHTING		1.69		4	15/3	FIRE PROTECTION COMPRESSOR		0.582	
5	20/1	LIGHTING			1.3	6					0.582
7	20/1	LIGHTING	0.649			8			0.582		
9	20/1	LIGHTING		0.308		10	20/3	GUH-3, EF-1		0.869	
11	20/1	SPARE			0	12				0.869	
13	20/1	RECEPTACLE	1.08			14			0.869		
15	20/1	RECEPTACLE		1.08		16	20/3	EF-2, GUH-2		0.869	
17	20/1	RECEPTACLE			0.54	18					0.869
19	20/1	RECEPTACLE	1.08			20			0.869		
21	20/1	RECEPTACLE		1.08		22	20/3	MAU-2, GUH-1		0.731	
23	20/1	RECEPTACLE, WATER HEATER			1.2	24				0.731	
25	20/1	RECEPTACLE	0.72			26			0.731		
27	20/1	RECEPTACLE		0.18		28	20/3	OHD 2, OHD 1		1.16	
29	20/1	SPARE			0	30				1.16	
31	50/3	3 PH OUTLET	4.67			32			1.16		
33				4.67		34	40/2	1 PH OUTLET		3.25	
35					4.67	36				3.25	
37	20/3	GUH-4	0.176			38	30/2	EUH-1	2		
39				0.176		40			2		
41					0.176	42	20/1	RADIO EQUIP OUTLETS			1.2
43	70/3	MAU-1	5.82			44	20/1	SPARE	0		
45				5.82		46	20/1	SPARE		0	
47					5.82	48	20/1	SPARE			0
49	60/3	BRIDGE CRANE	5.82			50	20/1	HVAC CONTROL PANEL	0.1		
51				5.82		52	20/1	FIRE ALARM CONTROL PANEL		0.2	
53					5.82	54	25/1	LIGHTING INVERTER			0.875
TOTAL CONNECTED KVA BY PHASE									28.9	30.5	29.1
TOTAL CONNECTED AMPS BY PHASE									240	254	242
BALANCED THREE PHASE AMPS 262											
			CONN. KVA		CALC. KVA				CONN. KVA		CALC. KVA
LIGHTING			6.46		8.07	(125%)	CONTINUOUS		0.315		0.394 (125%)
LARGEST MOTOR			17.5		21.8	(125%)	HEATING		4		4 (100%)
OTHER MOTORS			14.1		14.1	(100%)	NONCONTINUOUS		0.1		0.1 (100%)
RECEPTACLES			8.04		8.04	(50%>10)	KITCHEN EQUIP		0		0 (N/A)
							NONCOIN/DIVERSE		38		38 (100%)
							TOTAL KVA		88.4		94.5

INV PNL											
ROOM UTILITY STORAGE				VOLTS 120V 1P 2W				AIC 22,000			
MOUNTING SURFACE				BUS AMPS				MAIN BKR MLO			
FED FROM PNL A				NEUTRAL 100%				LUGS STANDARD			
NOTE											
CKT #	CIRCUIT DESCRIPTION		KVA LOAD	BREAKER	COND.						FEEDER RACEWAY AND CONDUCTORS
			A	TRIP/POLES							
1	LIGHTING		0.875	20/1		CU	1/2"C,1#12,#12N,#12G				
	TOTAL CONNECTED KVA BY PHASE		0.875								

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PROJECT NUMBER 48150	APPROVED BY JLH	REVIEWED BY JCT	DRAWN BY ATW	6/14/2013 1:47:42 PM
ELECTRICAL SCHEDULES AND ONELINE DIAGRAM				

E302