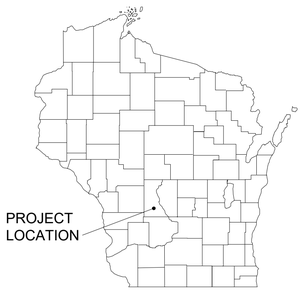
PARKING LOT PAVEMENT IMPROVEMENTS
MAUSTON READINESS CENTER

DEPARTMENT OF MILITARY AFFAIRS
MAUSTON, WISCONSIN
DFD PROJECT NUMBER: 24E8C
MSA PROJECT NUMBER: 00374215

LOCATION MAP

NOT TO SCALE



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E501	ELECTRICAL DETAILS

DIGGERS HOTLINE

Dial 811 or (800) 242-8511

www.DiggersHotline.com

NOTE:
UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND CONTRACTOR SHALL HAVE APPROPRIATE UTILITY MARK EXACT LOCATIONS PRIOR TO CONSTRUCTION.

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PROFESSIONAL ENGINEER
11-25-2025

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Parking Lot Pavement Improvements
Mauston Readiness Center
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Sheet Title: TITLE SHEET

Revisions:

No.	Date:	By:	Description:

Graphic Scale	AS SHOWN
DFD Number	24E8C
Set Type	BD
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Sheet Number	T100

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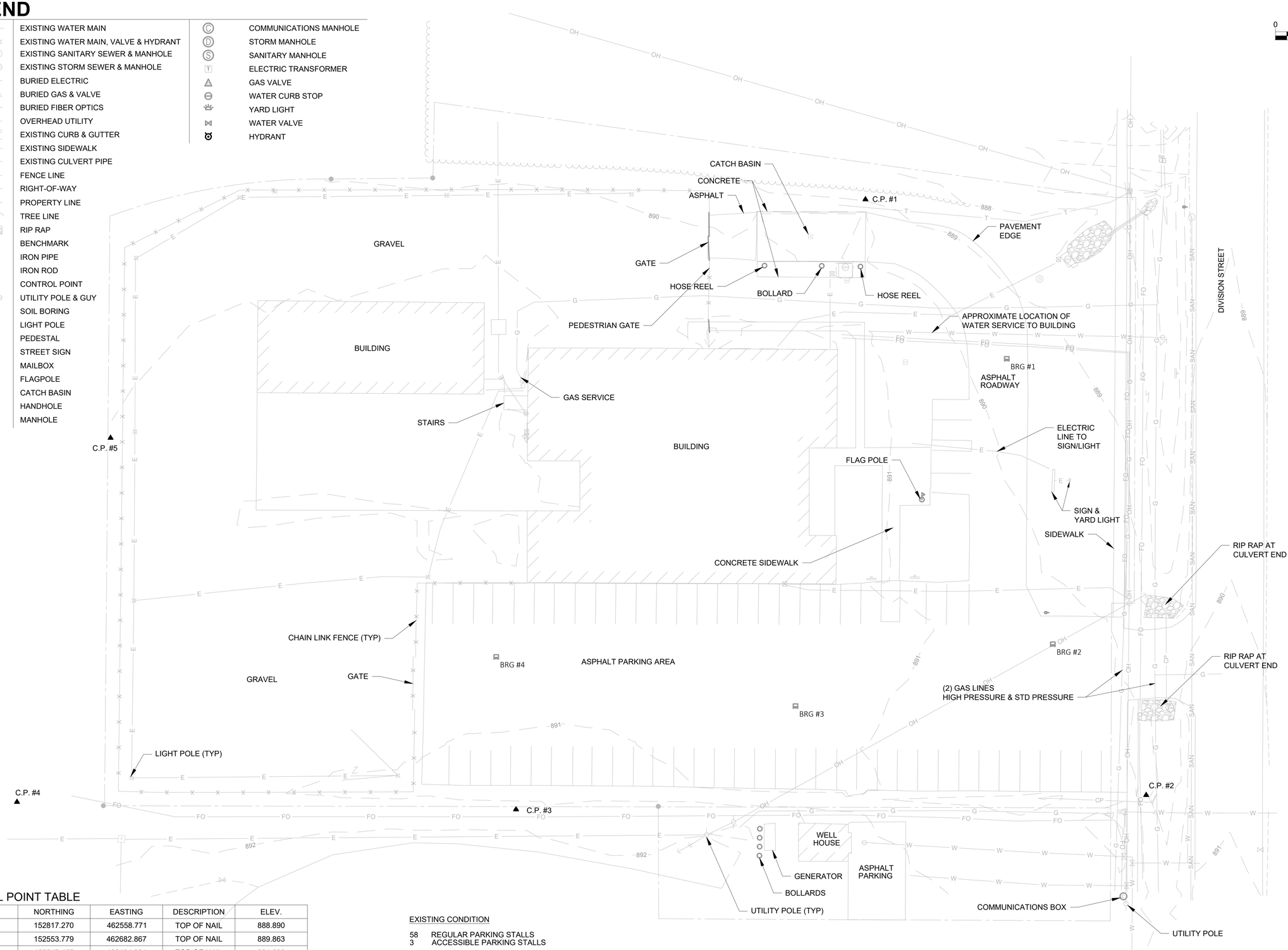
LEGEND

EXISTING WATER MAIN	COMMUNICATIONS MANHOLE
EXISTING WATER MAIN, VALVE & HYDRANT	STORM MANHOLE
EXISTING SANITARY SEWER & MANHOLE	SANITARY MANHOLE
EXISTING STORM SEWER & MANHOLE	ELECTRIC TRANSFORMER
BURIED ELECTRIC	GAS VALVE
BURIED GAS & VALVE	WATER CURB STOP
BURIED FIBER OPTICS	YARD LIGHT
OVERHEAD UTILITY	WATER VALVE
EXISTING CURB & GUTTER	HYDRANT
EXISTING SIDEWALK	
EXISTING CULVERT PIPE	
FENCE LINE	
RIGHT-OF-WAY	
PROPERTY LINE	
TREE LINE	
RIP RAP	
BENCHMARK	
IRON PIPE	
IRON ROD	
CONTROL POINT	
UTILITY POLE & GUY	
SOIL BORING	
LIGHT POLE	
PEDESTAL	
STREET SIGN	
MAILBOX	
FLAGPOLE	
CATCH BASIN	
HANDHOLE	
MANHOLE	



CONTROL POINT TABLE

C.P. NO.	NORTHING	EASTING	DESCRIPTION	ELEV.
1	152817.270	462558.771	TOP OF NAIL	888.890
2	152553.779	462682.867	TOP OF NAIL	889.863
3	152547.457	462404.324	TOP OF NAIL	891.683
4	152550.756	462183.730	TOP OF NAIL	891.590
5	152711.764	462225.082	TOP OF NAIL	888.888

EXISTING CONDITION

58 REGULAR PARKING STALLS
3 ACCESSIBLE PARKING STALLS

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Sheet Title: EXISTING SITE PLAN

Revisions:

No.	Date:	By:	Description:

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Sheet Number	C100

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LEGEND

- EXISTING CULVERT PIPE
- EXISTING FENCE LINE
- CONSTRUCTION LIMITS
- FENCE REMOVAL
- REMOVE EXISTING ASPHALT
- REMOVE EXISTING TURF
- REMOVE EXISTING RIP RAP & FABRIC
- REMOVE EXISTING DENSE GRADED BASE
- SAWCUT & REMOVE EXISTING SIDEWALK
- CAUTION OVERHEAD WIRE

0 20 40

CONTRACTOR TO PROTECT EXISTING TREES AND OVERHANGING LIMBS
DO NOT DAMAGE EX CONCRETE
CONTRACTOR TO PROTECT EXISTING TREES AND OVERHANGING LIMBS
DO NOT DAMAGE EXISTING FENCE/GATE
DO NOT DAMAGE EX CONCRETE
REMOVE EXISTING TURF
C.P. #1
GRAVEL
REMOVE EXISTING ASPHALT
DO NOT DAMAGE EX CONCRETE
EXISTING BUILDING
EXISTING BUILDING
REMOVE EXISTING TURF (TYP.)
DO NOT DISTURB FLAG POLE OR CONCRETE BASE
REMOVE EXISTNG TURF
REMOVE EXISTING SIGN
SAWCUT & REMOVE SIDEWALK AT NEAREST JOINT
REMOVE EXISTING SIGN
BRG #1
CONCRETE
EXISTING SIDEWALK
DIVISION STREET
REMOVE EX MAILBOX
SAWCUT & REMOVE SIDEWALK AT NEAREST JOINT
REMOVE EXISTING TURF
DO NOT DISTURB EXISTING SHOULDER/ROAD EDGE
REMOVE EXISTING RIP RAP AND FABRIC
C.P. #5
CONCRETE
DO NOT DAMAGE EX CONCRETE
FENCE REMOVAL FOR DUMPSTER PAD, ENCLOSURE & ADJACENT CONCRETE PAD - CONTRACTOR TO REMOVE END FENCE POST AT BUILDING CORNER AND FENCING WEST TO FENCE CORNER POST (INCLUDING INTERMEDIATE POSTS); REMOVE FENCE CORNER POST (AS REQUIRED TO INSTALL NEW POST FOR CONNECTION TO EXISTING 6' TALL FENCE SOUTH AND NEW 7' TALL FENCE EAST)
REMOVE EXISTING DENSE GRADED BASE
DO NOT DAMAGE EX LIGHT POLE & BASE
CORRESPONDING FENCE FOOTINGS TO BE REMOVED
GRAVEL
DO NOT DAMAGE EXISTING FENCE/GATE
REMOVE EXISTING DENSE GRADED BASE
BRG #4
REMOVE EXISTNG ASPHALT
BRG #3
BRG #2
REMOVE CULVERT PIPE AND ASSOCIATED RIP RAP EACH END
SAWCUT ASPHALT PAVEMENT
REMOVE EXISTING RIP RAP AND FABRIC
REMOVE EXISTING TURF
DO NOT DISTURB EXISTING SHOULDER/ROAD EDGE
C.P. #4
C.P. #3
C.P. #2
REMOVE CULVERT PIPE
REMOVE EXISTING TURF
DO NOT DISTURB EXISTING PIPE DISCHARGE
SAWCUT & REMOVE SIDEWALK AT NEAREST JOINT
EXISTING SIDEWALK

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Sheet Title: DEMOLITION – REMOVAL PLAN

Revisions:

No.	Date:	By:	Description:

Graphic Scale	AS SHOWN
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Sheet Number	C101

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LEGEND

- PROPOSED 4" PASSENGER VEHICLE PAVEMENT
- PROPOSED 5" MILITARY VEHICLE PAVEMENT
- PROPOSED CONCRETE
- PROPOSED CURB AND GUTTER
- PROPOSED TURF RESTORATION
- EXISTING FENCE LINE
- PROPOSED FENCE LINE
- PROPOSED GUARD RAIL
- DITCH FLOW LINE
- PROPOSED LIGHT POLE
- PROPOSED APRON ENDWALL

* STA 2+88.15 TO STA 3+50 = LOW BACK CURB (1" CURB HEAD)
STA 3+50 TO STA 4+00 = TRANSITION FROM LOW BACK CURB HEAD (1" CURB HEAD) TO 4" CURB HEAD
STA 4+00 TO STA 4+25 = TRANSITION FROM 4" CURB HEAD TO FULL CURB HEAD (6" CURB HEAD)
STA 4+25 TO STA 5+30 = FULL CURB HEAD (6" CURB HEAD)
(PROVIDE LOW BACK CURB TO ACCOMMODATE FOR RAMP OPENING AT SIDEWALK CONNECTION)
STA 5+30.32 TO STA 5+33.32 = TRANSITION FROM FULL CURB HEAD TO VALLEY CURB
STA 5+33.32 TO STA 5+57.32 = VALLEY CURB ACROSS DRIVEWAY

** LISTED STORM SEWER LENGTH INCLUDES THE ENDWALLS (THE LENGTH IS REPRESENTATIVE OF THE POINTS WHERE THE WATER ENTERS AND EXISTS THE SYSTEM)

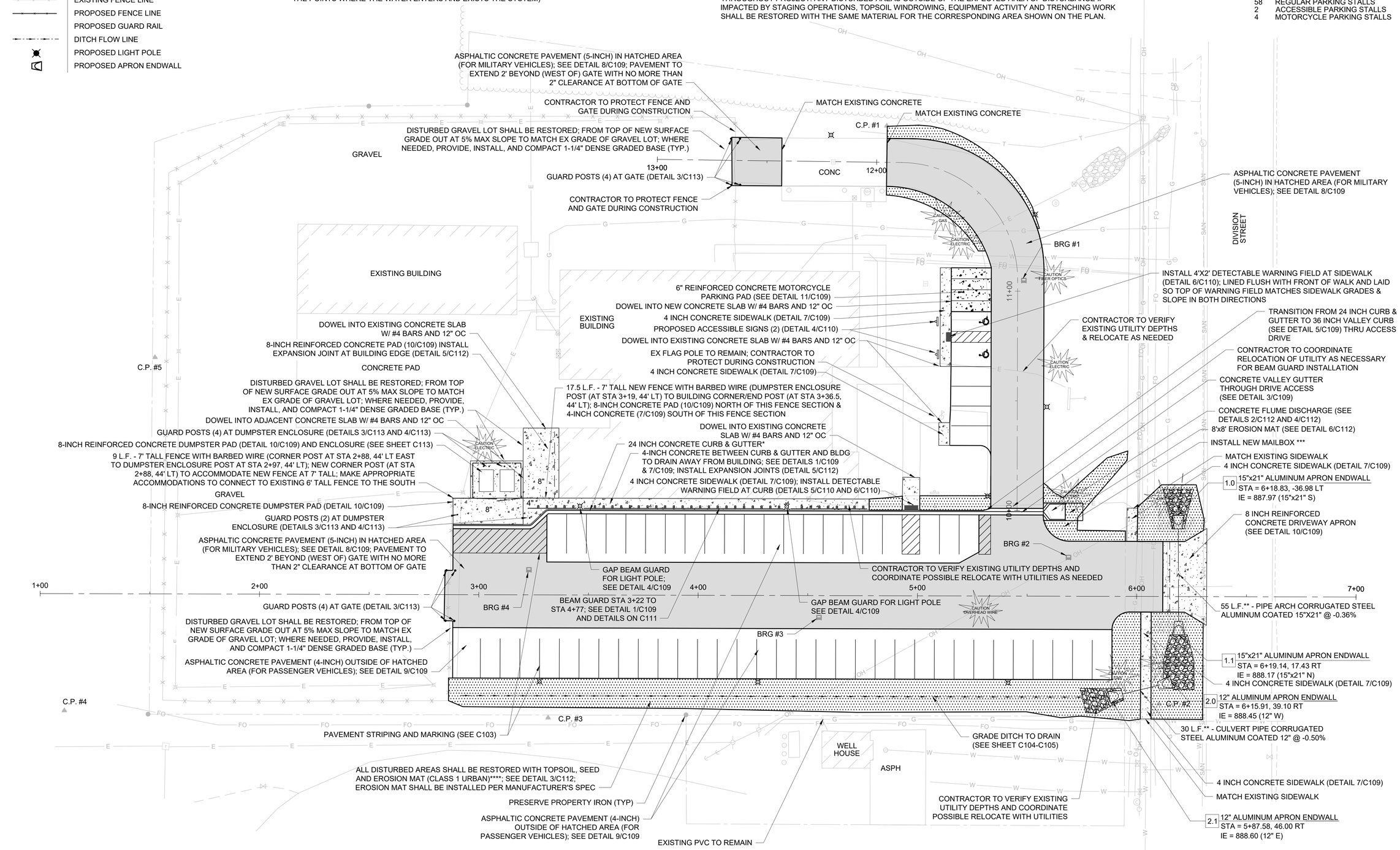
*** MAIL BOX SHALL BE EXTRA LARGE CAPACITY, BLACK, AND RUST-PROOF GALVANIZED STEEL CONSTRUCTION. BOX SHALL BE ARCHITECTURAL MAILBOXES STANLEY BLACK, ARCHITECTURAL MAILBOXES CENTENNIAL BLACK OR APPROVED SIMILAR. BOX SHALL BE MOUNTED UTILIZING APPROPRIATE MOUNTING HARDWARE, A TREATED 4X4 WOODEN POST AND SET PER USPS HEIGHT AND OFFSET REQUIREMENTS.

**** CONTRACTOR IS RESPONSIBLE FOR ALL FINAL RESTORATION ASSOCIATED WITH THIS PROJECT. THOUGH NOT EXPLICITLY SHOWN, ALL TURF AREAS ADJACENT TO NEW IMPERVIOUS SURFACES SHALL BE RESTORED WITH TOPSOIL, SEED, FERTILIZER AND MULCH TO RESTORE AREAS DISTURBED WITH FORMWORK AND MACHINERY. CONTRACTOR SHALL MINIMIZE THE AMOUNT OF OVERALL SITE DISTURBANCE THROUGHOUT PROJECT. ANY DISTURBED AREAS OUTSIDE OF THE EXPECTED AREA OF DISTURBANCE IF IMPACTED BY STAGING OPERATIONS, TOPSOIL WINDROWING, EQUIPMENT ACTIVITY AND TRENCHING WORK SHALL BE RESTORED WITH THE SAME MATERIAL FOR THE CORRESPONDING AREA SHOWN ON THE PLAN.

0 20 40

PROPOSED PARKING STALL COUNT

58 REGULAR PARKING STALLS
2 ACCESSIBLE PARKING STALLS
4 MOTORCYCLE PARKING STALLS



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Sheet Title: SITE AND UTILITY PLAN

Revisions:

No.	Date:	By:	Description:

Graphic Scale	AS SHOWN
DFD Number	24E8C
Set Type	BD
Date Issued	11/25/2025
Sheet Number	C102

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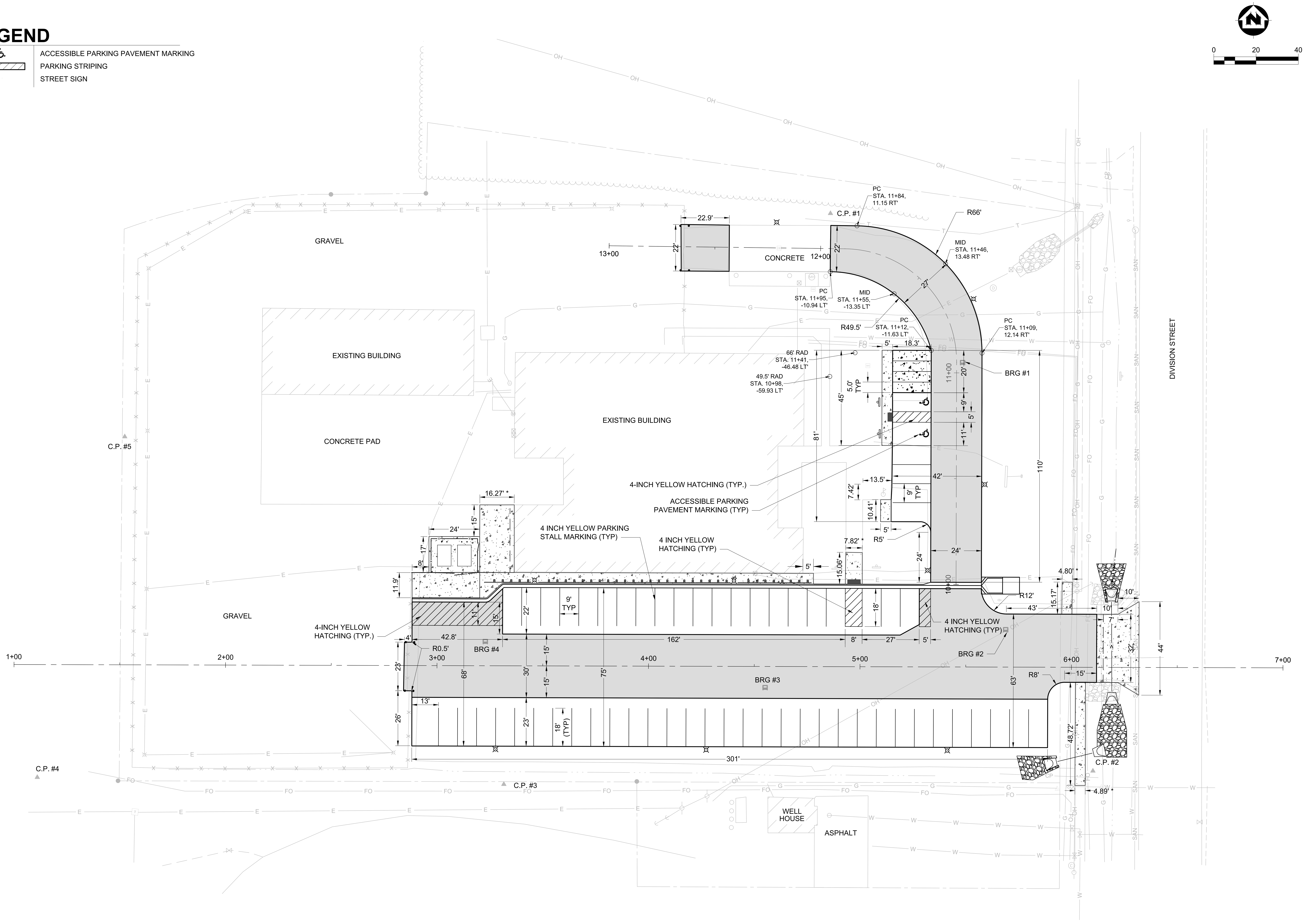
LEGEND

♿	ACCESSIBLE PARKING PAVEMENT MARKING
(hatched bar)	PARKING STRIPING
	STREET SIGN



* CONTRACTOR TO VERIFY IN FIELD EXISTING WIDTHS TO MATCH

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Sheet Title:
STRIPING AND GEOMETRIC PLAN

Revisions:

No.	Date:	By:	Description:

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Sheet Number	C103

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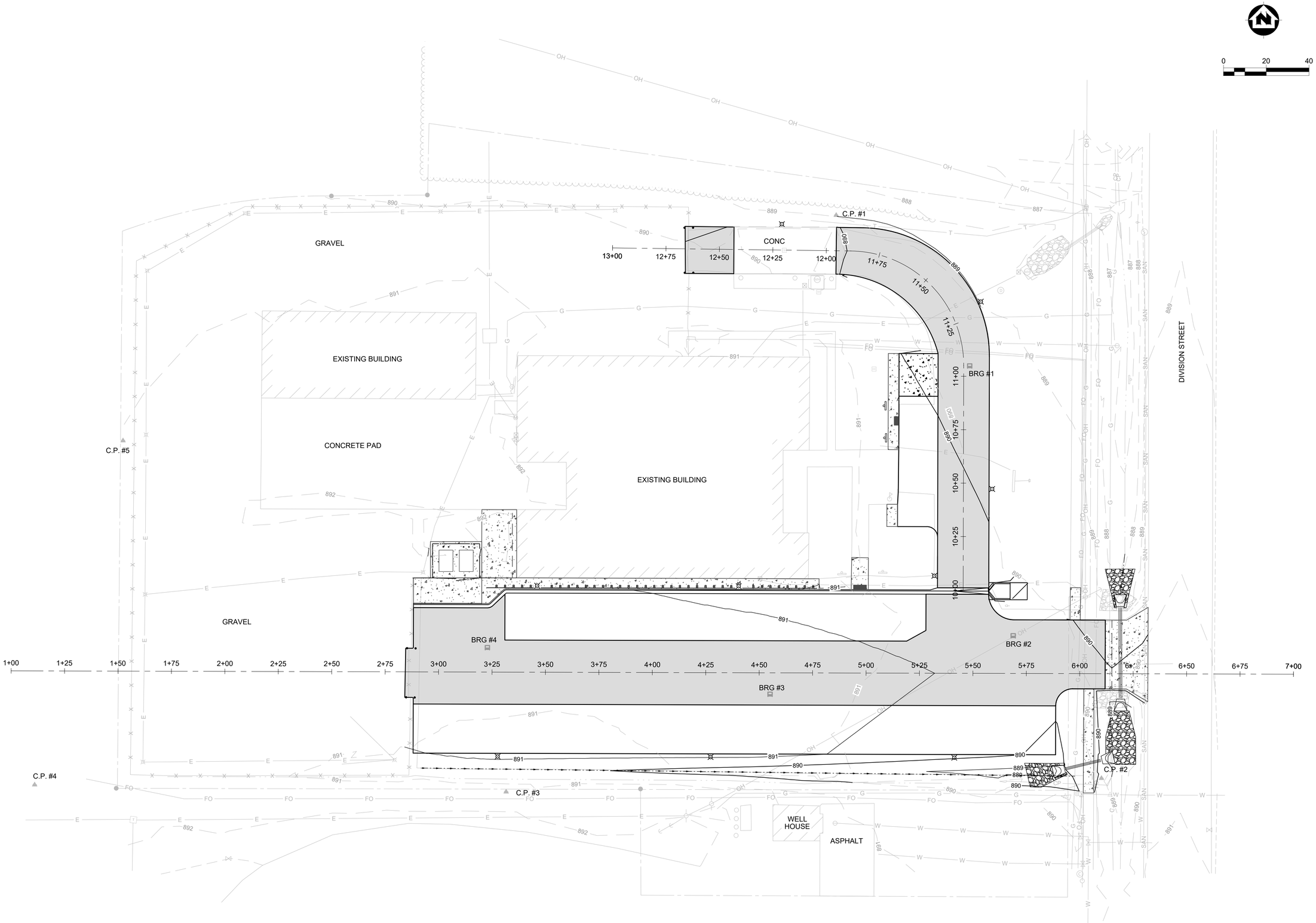

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Sheet Title: OVERALL GRADING PLAN

Revisions:

No.	Date:	By:	Description:

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Sheet Number	C104

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0 10 20

CONCRETE PAD

EXISTING BUILDING

DEPRESS CONCRETE TO PROVIDE DRAINAGE AWAY FROM BUILDING EDGE

FROM TOP OF NEW SURFACE GRADE OUT AT 5% MAX SLOPE TO MATCH EX GRADE OF GRAVEL LOT (TYP.)

GRADE AT 4:1 MAX FROM NEW SURFACES TO TIE TO EX GROUND (TYP.)

GRAVEL

FROM TOP OF NEW SURFACE GRADE OUT WITH AGGREG. BASE AT 5% MAX SLOPE TO MATCH EX GRADE OF GRAVEL LOT (TYP.)

FROM TOP OF NEW SURFACE GRADE OUT WITH AGGREGATE BASE AT 5% MAX SLOPE TO MATCH EX GRADE OF GRAVEL LOT (TYP.)

MATCH LINE SEE SHEET C106

WELL HOUSE

ASPHALT

C.P. #3

BRG #2

BRG #3

BRG #4

0.64%

0.68%

DB = DITCH BOTTOM
BOC = BACK OF CURB (TOP OF CURB)
EOC = EDGE OF CONCRETE (TOP OF CONCRETE)
EOP = EDGE OF PAVEMENT
FG = FINISHED GRADE (TOP/FINISHED SURFACE ELEVATION)
OG = ORIGINAL GROUND ELEVATION

ELEVATIONS LABELED AT EVERY 25' STATION AT THE LEFT EDGE OF PAVEMENT (EOP), LEFT BACK OF CURB AND LEFT BUILDING, RIGHT EOP AND RIGHT DITCH BOTTOM; ADDITIONAL ELEVATIONS ARE LABELED AT BREAKPOINTS, ENDS, CORNERS, MATCHPOINTS OR OTHER SIGNIFICANT LOCATIONS

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Sheet Title: MAIN PARKING LOT GRADING PLAN & SPOT ELEVATIONS

Revisions:

No.	Date:	By:	Description:

Graphic Scale	
DFD Number	24E8C
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Sheet Number	C105

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DB = DITCH BOTTOM
BOC = BACK OF CURB (TOP OF CURB)
EOC = EDGE OF CONCRETE (OR TOP OF CONCRETE)
EOP = EDGE OF PAVEMENT (OR TOP OF PAVEMENT)
FG = FINISHED GRADE (TOP/FINISHED SURFACE ELEVATION)
OG = ORIGINAL GROUND ELEVATION

ELEVATIONS LABELED AT EVERY 25' STATION AT THE LEFT EDGE OF PAVEMENT (EOP), LEFT BACK OF CURB AND LEFT BUILDING, RIGHT EOP AND RIGHT DITCH BOTTOM; ADDITIONAL ELEVATIONS ARE LABELED AT BREAKPOINTS, ENDS, CORNERS, MATCHPOINTS OR OTHER SIGNIFICANT LOCATIONS

0 10 20

EXISTING BUILDING

BRG #3

MATCH LINE
SEE SHEET C105

MATCH OG: 890.24
STA. 12+66, -11.50' LT.

MATCH OG: 890.80
STA. 12+66, 10.50' RT.

MATCH OG: 890.09
STA. 12+66, 0.00' T.

MATCH OG: 890.11
STA. 12+43, -11.36' LT.

MATCH OG: 890.03
STA. 12+43, 10.49' RT.

MATCH OG: 890.08
STA. 12+43, 0.00' T.

CONC

MATCH OG: 890.13
STA. 11+95, 0.01' RT.

C.P. #1

MATCH OG: 890.01
STA. 11+95, -10.92' LT.

MATCH OG: 890.03
STA. 11+95, 10.94' RT.

MATCH OG: 890.66
STA. 10+47, -30.62' LT.

MATCH OG: 890.43
STA. 10+66, -30.26' LT.

MATCH OG: 890.85
STA. 10+40, -35.78' LT.

MATCH OG: 890.58
STA. 10+66, -35.26' LT.

MATCH OG: 890.84
STA. 10+40, -30.78' LT.

MATCH OG: 890.62
STA. 10+50, -30.43' LT.

MATCH OG: 889.33
STA. 5+50, 50.99' RT.

MATCH OG: 889.79
STA. 5+96, -40.26' LT.

MATCH OG: 889.70
STA. 6+00, -40.20' LT.

MATCH OG: 887.79
STA. 6+21, -56.05' LT.

MATCH OG: 890.09
STA. 6+32, -8.98' LT.

MATCH OG: 890.16
STA. 6+32, 0.00' T.

MATCH OG: 889.88
STA. 6+32, -31.09' LT.

MATCH OG: 890.26
STA. 6+32, 13.12' RT.

MATCH OG: 890.11
STA. 6+02, 55.84' RT

MATCH OG: 890.05
STA. 6+07, 55.84' RT

DEPRESS CONCRETE TO PROVIDE DRAINAGE ACROSS SLAB

BRG #1

BRG #2

C.P. #2

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Sheet Title: DRIVEWAY GRADING PLAN & SPOT ELEVATIONS

Revisions:

No.	Date:	By:	Description:

Graphic Scale	
DFD Number	24E8C
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LEGEND

- SILT FENCE
- TRACKING PAD
- INLET PROTECTION, TYPE B
- SEDIMENT LOG

0 20 40

INLET PROTECTION, TYPE B
C.P. #1
13+00
12+00
GRAVEL
EXISTING BUILDING
DIVISION STREET
11+00
BRG #1
CONCRETE PAD
C.P. #5
CONC
EXISTING BUILDING
SILT FENCE (TYP)
SEDIMENT LOG
10+00
GRAVEL
BRG #2
TRACKING PAD
BRG #4
1+00
2+00
3+00
4+00
5+00
6+00
7+00
BRG #3
SEDIMENT LOG
SEDIMENT LOG
C.P. #2
C.P. #4
C.P. #3
ASPHALT
ASPHALT
GRAVEL

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Sheet Title: EROSION CONTROL PLAN

Revisions:

No.	Date:	By:	Description:

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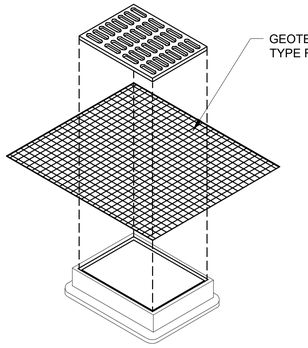
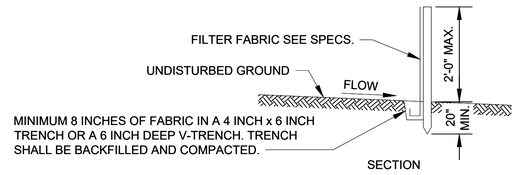


INSTALLATION NOTES:

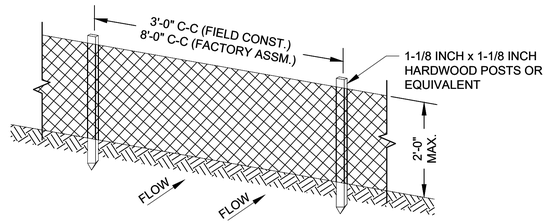
TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

1 / C108 INLET PROTECTION, TYPE B
NTS

WITHOUT CURB BOX. CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX.



SECTION



PERSPECTIVE VIEW

GENERAL NOTES:

1. ENDS OF FENCE SHALL BE TURNED UPSLOPE 1 TO 2 FEET IN ELEVATION TO PREVENT FLANKING.
2. STAPLE FABRIC WITH 1/2 INCH (MINIMUM) STAPLES TO THE UPSLOPE SIDE OF THE POSTS.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED BY SIX INCHES AND FOLDED.

2 / C108 TYPICAL SILT FENCE INSTALLATION AT SITE PERIMETER DETAIL
NTS

1. SECTION NR216.46 OF WISCONSIN STATE ADMINISTRATIVE CODE IDENTIFIES REQUIREMENTS FOR CONSTRUCTION SITE AND POST-CONSTRUCTION EROSION CONTROL. IT IS THE INTENT OF THESE PLANS TO SATISFY THESE REQUIREMENTS. THE METHODS AND STRUCTURES USED TO CONTROL EROSION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL IMPLEMENT AN APPROPRIATE MEANS OF CONTROLLING EROSION DURING SITE OPERATION AND UNTIL THE VEGETATION IS RE-ESTABLISHED. ADJUSTMENTS TO THE CONTROL SYSTEM SHALL BE MADE AS REQUIRED.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE WISCONSIN DNR'S CONSERVATION PRACTICE STANDARDS. THESE STANDARDS ARE PERIODICALLY UPDATED AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND REFERENCE THE MOST RECENTLY RELEASED STANDARD.
3. THIS INFORMATION IS ONLY ONE PART OF THE OVERALL EROSION CONTROL REQUIREMENTS. ADDITIONAL REQUIREMENTS MAY ALSO BE SHOWN ON THE CONTRACT DRAWINGS AND IN THE ACCOMPANYING SPECIFICATIONS.
4. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE OWNER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
5. THE AREA OF EROSIVE LAND EXPOSED TO THE ELEMENTS BY GRUBBING, EXCAVATION, TRENCHING, BORROW AND FILL OPERATIONS AT ANY ONE TIME SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE. FOR ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN 7 WORKING DAYS, OR WHERE GRADING WORK EXTENDS BEYOND THE PERMANENT SEEDING DEADLINES, THE SITE MUST BE TREATED WITH TEMPORARY STABILIZATION MEASURES SUCH AS SOIL TREATMENT, TEMPORARY SEEDING AND/OR MULCHING. ALL DISTURBED AREAS SHALL BE TREATED WITH PERMANENT STABILIZATION MEASURES WITHIN 3 WORKING DAYS OF FINAL GRADING.
6. ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY OR WITHIN 24 HOURS OF THE TIME 0.5 INCHES OF RAIN HAS OCCURRED. ALL NECESSARY REPAIR AND MAINTENANCE WILL BE DONE AT THIS INSPECTION TIME.
7. ALL EROSION CONTROL DEVICES AND/OR STRUCTURES SHALL BE PROPERLY INSTALLED PRIOR TO CLEARING AND GRUBBING OPERATIONS WITHIN THEIR RESPECTIVE DRAINAGE AREAS. THESE SHALL BE PROPERLY MAINTAINED FOR MAXIMUM EFFECTIVENESS UNTIL VEGETATION IS RE-ESTABLISHED.
8. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY INSTALLED PRIOR TO ANY SOIL DISTURBANCE.
9. ANY SLOPES STEEPER THAN 3H:1V SHALL BE STAKED WITH EROSION CONTROL FABRIC UNLESS INDICATED ON THE PLAN.
10. ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.
11. WIND EROSION SHALL BE KEPT TO A MINIMUM DURING CONSTRUCTION. WATERING, MULCH, OR A TACKING AGENT MAY BE REQUIRED TO PROTECT NEARBY RESIDENCES AND WATER RESOURCES.
12. CHANNELIZED RUNOFF ENTERING THE PROJECT SITE FROM ADJOINING LANDS SHALL BE DIVERTED THROUGH NATURALLY OR ARTIFICIALLY EROSION-RESISTANT CONVEYANCES. IF CHANNELIZED RUNOFF CANNOT BE DIVERTED, SITE BEST MANAGEMENT PRACTICES MUST ACCOUNT FOR THE ADDITIONAL FLOW RATES AND EROSION POTENTIAL THAT SUCH RUNOFF PRESENTS.
13. THE CONTRACTOR SHALL TAKE ALL POSSIBLE PRECAUTIONS TO PREVENT SOILS FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEPT AND/OR SCRAPED (NOT FLUSHED) PERIODICALLY TO REMOVE SOIL, DIRT, AND/OR DUST.
14. EROSION CONTROLS SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF TEMPORARY STOCKPILES. ANY SOIL STOCKPILE THAT REMAINS FOR MORE THAN 7 DAYS SHALL BE COVERED OR TREATED WITH STABILIZATION PRACTICES SUCH AS TEMPORARY OR PERMANENT SEEDING AND MULCHING. ALL STOCK PILES SHALL BE PLACED AT LEAST 75 FEET FROM STREAMS OR WETLANDS.
15. ADDITIONAL EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.) SHALL INCLUDE THE FOLLOWING:
    a. PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
    b. BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
    c. DISCHARGE OF TRENCH WATER OR DEWATERING EFFLUENT MUST BE PROPERLY TREATED TO REMOVE SEDIMENT IN ACCORDANCE WITH THE WDNR CONSERVATION PRACTICE STANDARD 1061 - DEWATERING OR A SUBSEQUENT WDNR DEWATERING STANDARD PRIOR TO DISCHARGE INTO A STORM SEWER, DITCH, DRAINAGEWAY, OR WETLAND OR LAKE.
16. ALL DRAINAGE CULVERTS, STORM DRAIN INLETS, MANHOLES, OR ANY OTHER EXISTING STRUCTURES THAT COULD BE DAMAGED BY SEDIMENTATION SHALL BE PROTECTED ACCORDING TO THE VARIOUS METHODS PROVIDED IN THE PRINTED CONSERVATION PRACTICE STANDARDS.
17. ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR STABILIZATION MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
18. THE FIRST SIX WEEKS AFTER INITIAL STABILIZATION, ALL NEWLY SEEDED AND MULCHED AREAS SHALL WATERED WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.
19. WHEN THE DISTURBED AREA HAS BEEN STABILIZED BY PERMANENT VEGETATION OR OTHER MEANS, TEMPORARY BMP'S SUCH AS SILT FENCES, STRAW BALES, AND SEDIMENT TRAPS SHALL BE REMOVED AND THESE AREAS STABILIZED.
20. ALL TEMPORARY BEST MANAGEMENT PRACTICES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED.
21. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH SEED AND MULCH UNLESS OTHERWISE SPECIFIED. A MINIMUM OF FOUR INCHES OF TOPSOIL SHALL BE APPLIED TO ALL AREAS TO BE SEEDED OR SODDED.

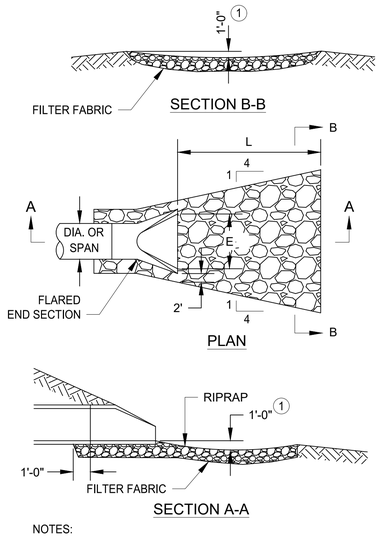
5 / C108 CONSTRUCTION SITE EROSION CONTROL REQUIREMENTS
NTS

TABLE OF QUANTITIES
RIPRAP AT RCP OUTLETS

DIA. OF ROUND PIPE (IN.)	L (FT.)	12" DEPTH RIPRAP (CU.YDS.)	18" DEPTH RIPRAP (CU.YDS.)	24" DEPTH RIPRAP (CU.YDS.)
12	8	2.8	4.1	5.5
15	8	2.9	4.4	5.8
18	10	3.9	5.9	7.8
21	10	4.2	6.3	8.4
24	12	5.5	8.3	11.0
27	12	5.8	8.7	11.6
30	14	7.3	10.9	14.5
36	16	9.2	13.8	18.3
42	18	10.9	16.3	21.7
48	20	12.9	19.4	25.8

TABLE OF QUANTITIES
RIPRAP AT HERCP OUTLETS
OR BOXES OF EQUIVALENT SPAN WIDTH

SPAN OF HERCP (IN.)	L (FT.)	LIGHT d50=6" 12" DEPTH RIPRAP (CU.YDS.)	MEDIUM d50=9" 18" DEPTH RIPRAP (CU.YDS.)	HEAVY d50=12" 24" DEPTH RIPRAP (CU.YDS.)
22	10	3.9	5.9	7.8
30	12	5.5	8.2	10.9
38	14	7.2	10.8	14.3
45	16	9.2	13.7	18.3
53	18	10.9	16.3	21.7
60	20	12.7	19.0	25.4



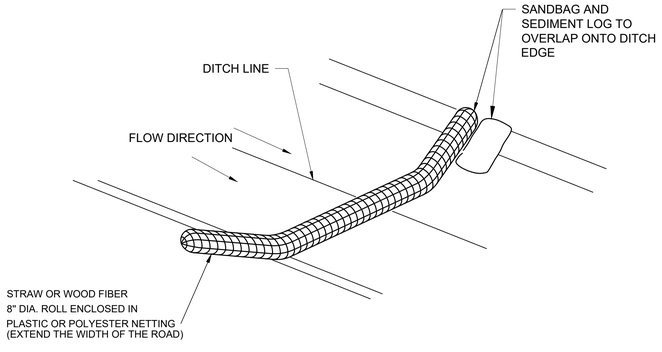
NOTES:

PIPE SIZES LARGER THAN THOSE SHOWN REQUIRE A SPECIAL DESIGN.

LIGHT RIPRAP SHALL BE UNDERLAIN WITH TYPE R FABRIC. MEDIUM AND HEAVY SHALL BE UNDERLAIN W/ TYPE HR FABRIC.

(1) FOR PIPES GREATER THAN OR EQUAL TO 30" USE 1.5'.

3 / C108 RIP RAP AT OUTLETS
NTS



GENERAL NOTES:

1. SEDIMENT LOGS SHALL BE STAKED FOR ADDITIONAL STABILITY WHERE PAVEMENT IS REMOVED.
2. PROVIDE ADDITIONAL SAND BAGS WHERE PAVEMENT IS IN TACT
3. SEDIMENT LOGS SHALL ONLY BE REMOVED IF THEY INTERFERE WITH UTILITY INSTALLATION, AND SHALL BE REINSTALLED AFTER THE UTILITY WORK IS COMPLETED.

4 / C108 TYPICAL SILT FENCE INSTALLATION AT SITE PERIMETER DETAIL
NTS

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Mauston Readiness Center
Department of Military Affairs
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Sheet Title: EROSION CONTROL DETAILS

Revisions:

No.	Date:	By:	Description:

Graphic Scale	AS SHOWN
DFD Number	24E8C
Set Type	BD
Date Issued	11/25/2025
Sheet Number	C108

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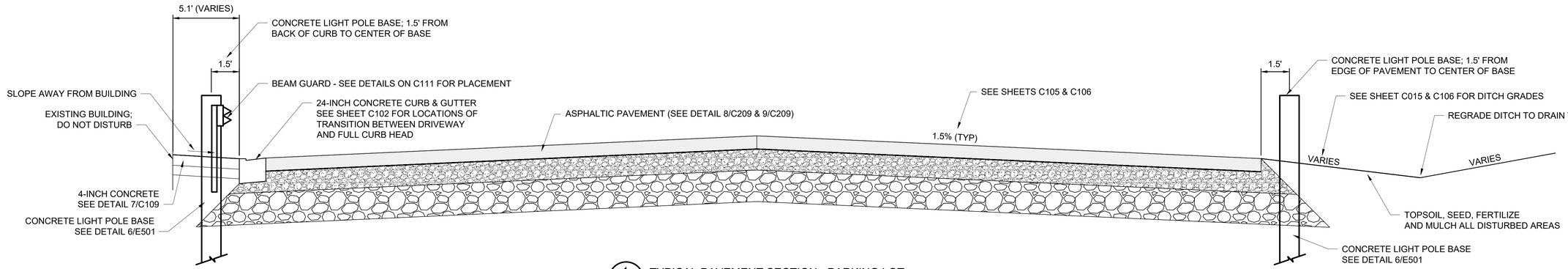
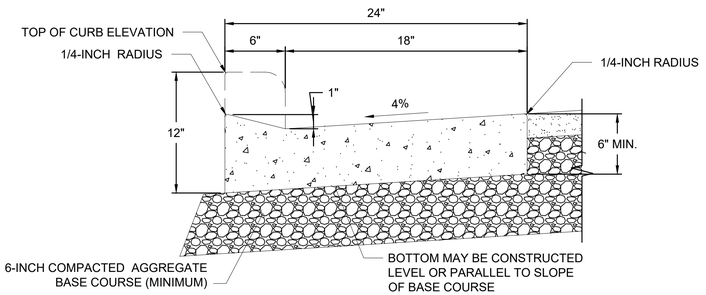
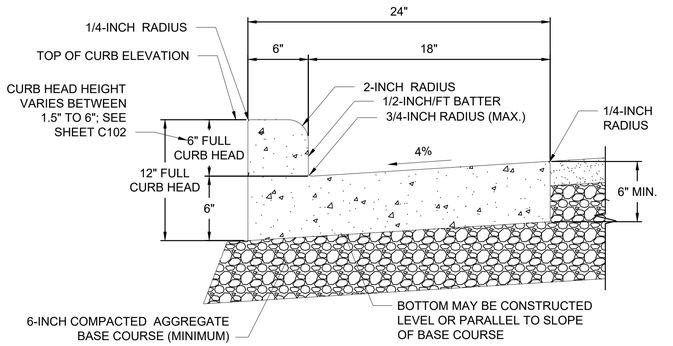


1 C109 TYPICAL PAVEMENT SECTION - PARKING LOT
NTS



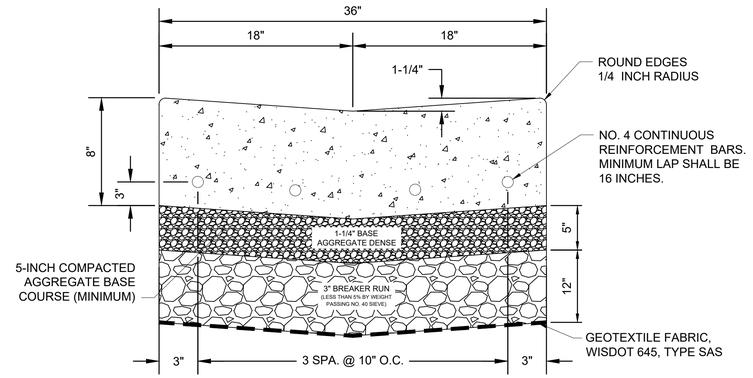
DRIVEWAY SECTION



SECTION

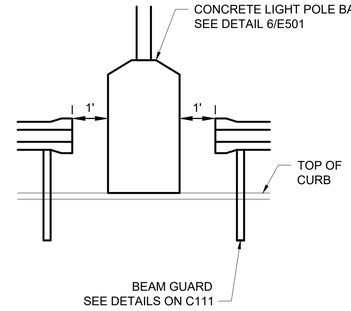
NOTES:
1. LATERAL CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 15' NOR LESS THAN 6' IN LENGTH. JOINTS SHALL BE A MIN. 3" IN DEPTH.
2. EXPANSION JOINTS SHALL BE PLACED TRANSVERSALLY AT RADIUS POINTS OF CURVES OF RADIUS OF 200' OR LESS, AT ANGLE POINTS, BETWEEN BACK OF CURB AND CONCRETE SIDEWALK OR DRIVEWAY, OR AS DIRECTED BY THE ENGINEER. THE EXPANSION JOINT SHALL BE A ONE PIECE ASPHALTIC MATERIAL HAVING THE SAME DIMENSIONS AS THE CURB AND GUTTER AT THAT STATION AND BE 1/2" THICK.

2 C109 CONCRETE CURB AND GUTTER DETAIL
NTS

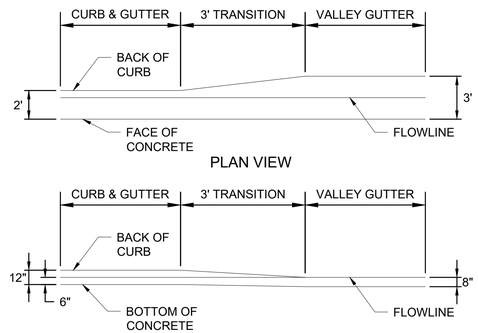


GENERAL NOTES:
1. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3 INCHES CLEAR.
2. BAR STEEL REINFORCEMENT SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS.
3. BAR STEEL REINFORCEMENT SHALL BE FREE OF ALL RUST AND MILL SCALE.
4. CAST-IN-PLACE CONCRETE SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS.
5. CONCRETE ACCESSORIES OF EXPANSION JOINT MATERIAL AND CURING COMPOUND SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS.

3 C109 CONCRETE VALLEY GUTTER DETAIL
NTS



4 C109 BEAM GUARD AND LIGHT POLE GAP DETAIL
NTS

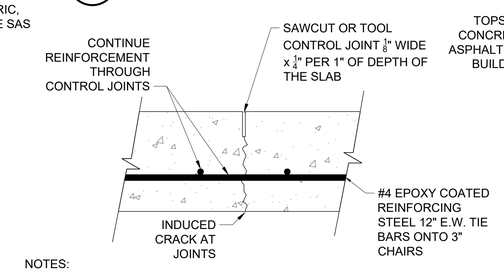


PLAN VIEW

FRONT VIEW

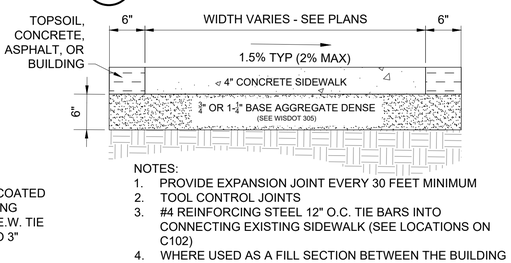
NOTES:
SEE DETAIL 2 FOR CURB
SEE DETAIL 3 FOR VALLEY

5 C109 CURB TO VALLEY GUTTER TRANSITION DETAIL
NTS



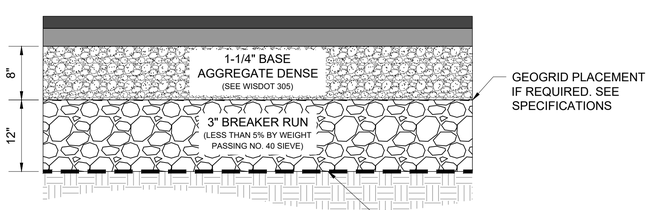
NOTES:
CONTROL JOINTS SHALL BE PLACED SO THAT THE TOTAL SQUARE FOOTAGE OF THE SLAB DOES NOT EXCEED 80 SQUARE FEET TOTAL SURFACE AREA AND BE PLACED TO GIVE THE CONCRETE WORK SOME ARTISTIC CONTINUITY.

6 C109 CONCRETE PAD CONTROL JOINT DETAIL
NTS



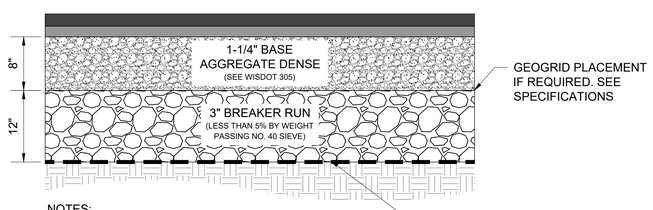
NOTES:
1. PROVIDE EXPANSION JOINT EVERY 30 FEET MINIMUM
2. TOOL CONTROL JOINTS
3. #4 REINFORCING STEEL 12" O.C. TIE BARS INTO CONNECTING EXISTING SIDEWALK (SEE LOCATIONS ON C102)
4. WHERE USED AS A FILL SECTION BETWEEN THE BUILDING AND CURB, OR BETWEEN CONCRETE PAD AND CURB (DETAIL 1/C109& SHEET C102), SLOPE WILL VARY AND MAY EXCEED 2%; SEE GRADES ON C105.

7 C109 CONCRETE SIDEWALK SECTION
NTS



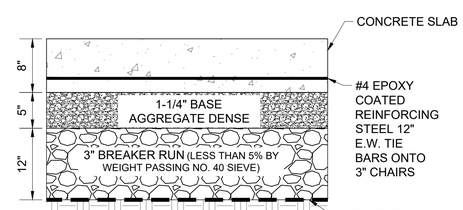
NOTES:
SURFACE = 2" HMA (4 HT 58-28 H)
BINDER = 3" HMA (3 MT 58-28 S)
APPLY TACK COAT BETWEEN BINDER AND SURFACE LAYERS

8 C109 TYPICAL PAVEMENT SECTION - MILITARY VEHICLES
NTS



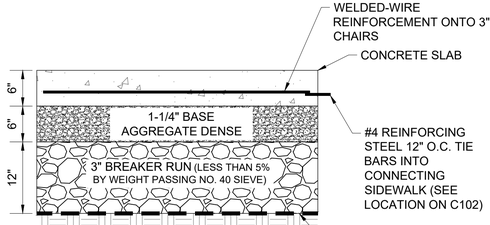
NOTES:
SURFACE = 1.75" HMA (4 HT 58-28 H)
BINDER = 2.25" HMA (3 MT 58-28 S)
APPLY TACK COAT BETWEEN BINDER AND SURFACE LAYERS

9 C109 TYPICAL PAVEMENT SECTION - PASSENGER VEHICLES
NTS



NOTES:
CONTROL JOINTS PER DETAIL 6/C109

DUMPSTER PAD, CONCRETE SLAB & DRIVEWAY APRON CONCRETE SECTION
10 C109
NTS



NOTES:
CONTROL JOINTS PER DETAIL 6/C109

11 C109 MOTORCYCLE PARKING SECTION
NTS

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Sheet Title: TYPICAL SECTIONS & DETAILS

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Sheet Number	C109

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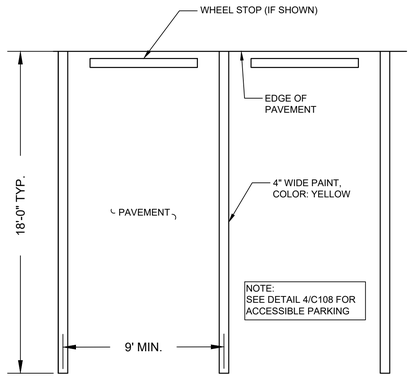
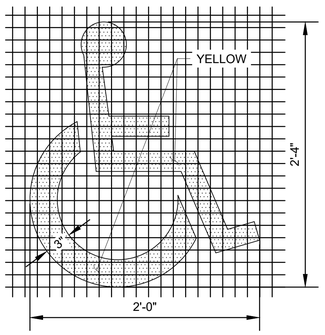


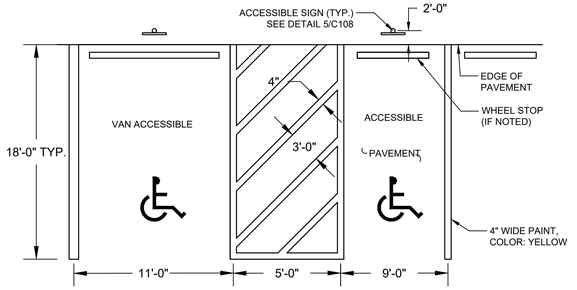
1 C110 PARKING STRIPING NTS



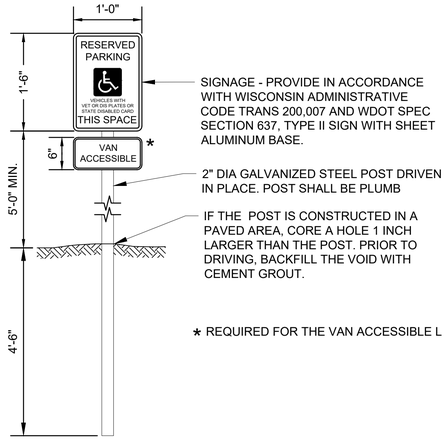
2 C110 ACCESSIBLE PARKING PAVEMENT MARKING NTS

GENERAL NOTES:

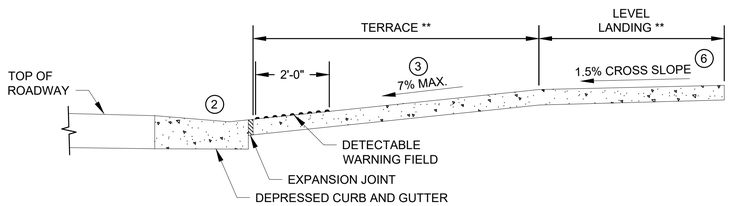
1. DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE SPECIFICATIONS.
2. A DETAILED DRAWING OF THE DISABLED PARKING SYMBOL IS ILLUSTRATED IN THE "STANDARD HIGHWAY SIGNS MANUAL" BY THE FEDERAL HIGHWAY ADMINISTRATION.
3. WDOT SPEC. MEANS THE STATE OF WISCONSIN STANDARD SPECIFICATION FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION, AS AMENDED BY THE MOST CURRENT INTERIM SUPPLEMENTAL SPECIFICATION.
4. PROVIDE DISABLED PARKING STALLS AT LOCATIONS SHOWN ON THE DRAWINGS. STALL AND ACCESS ISLE DIMENSIONS SHALL BE AS SHOWN ON THE DETAIL UNLESS INDICATED OTHERWISE ON THE DRAWING.
5. PROVIDE A DISABLED SYMBOL AND BARRIER FREE SIGNAGE FOR EACH STALL SHOWN ON THE DRAWING.
6. PROVIDE WHEEL STOPS WHEN SHOWN ON THE DRAWINGS.
7. THE MAXIMUM SURFACE SLOPE, ACROSS STALLS OR ACCESSIBLE ROUTES, IN ANY DIRECTION, SHALL BE 2%.



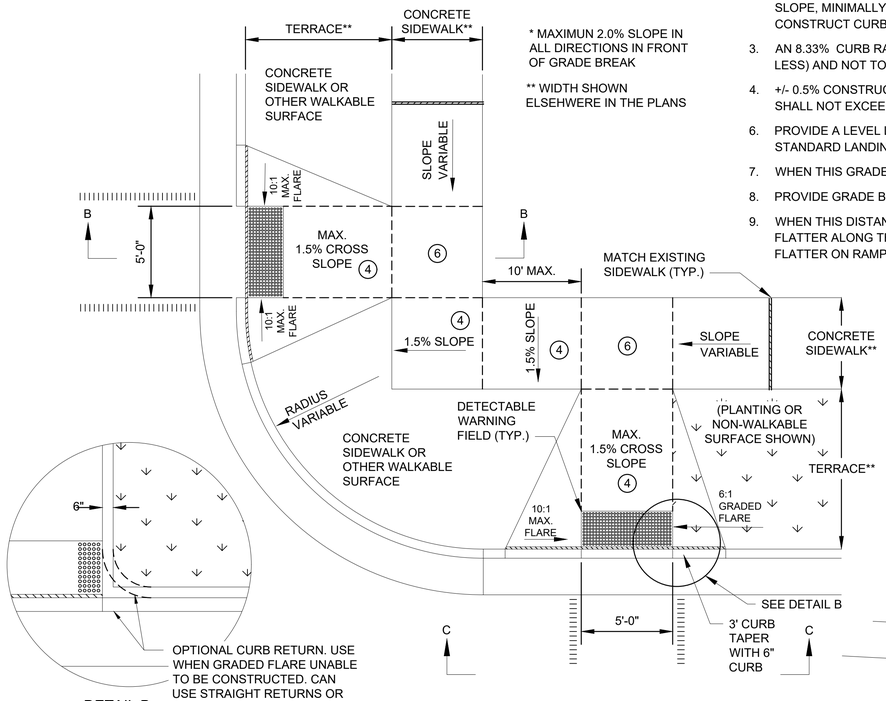
3 C110 ACCESSIBLE PARKING STRIPING NTS



4 C110 ACCESSIBLE SIGN NTS



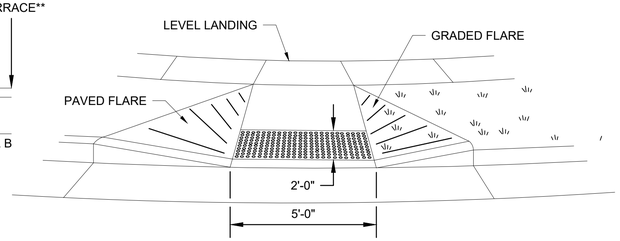
SECTION B-B FOR TYPE 3



PLAN VIEW
(OUTSIDE OF CROSSWALK AREA)
CURB RAMP TYPE 3

LEGEND

- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



VIEW C-C FOR TYPE 3

5 C110 ACCESSIBLE PARKING PAVEMENT MARKING NTS

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

2. GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.
3. AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE
4. +/- 0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
6. PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.
7. WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD.
8. PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.
9. WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

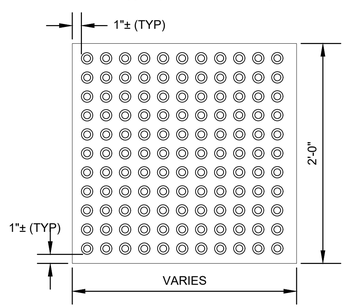
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

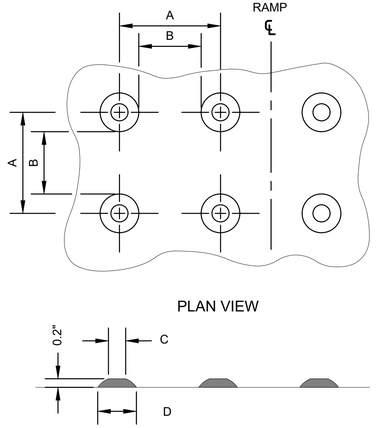
15 FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

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

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



PLAN VIEW



PLAN VIEW

ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL

6 C110 DETECTABLE WARNING FIELD DETAIL NTS

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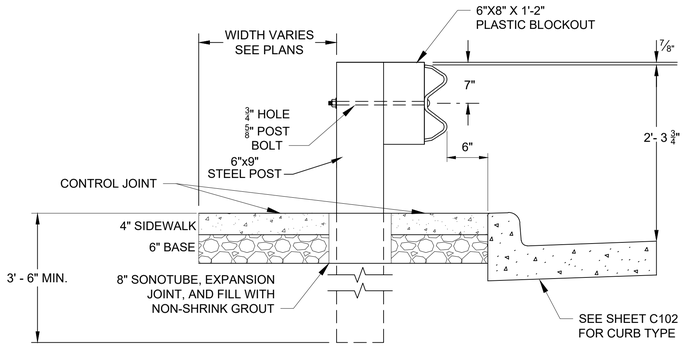
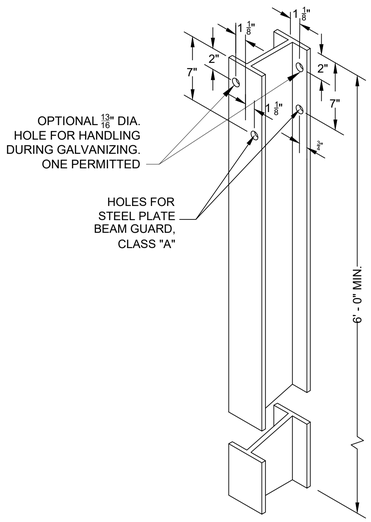
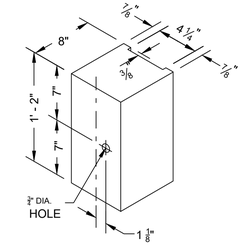


END VIEW

1 C111 BEAM GUARD DETAIL NTS



STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9)

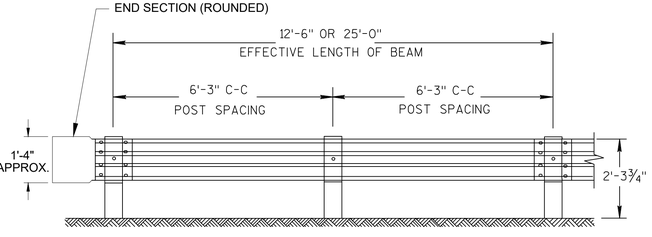


TYPICAL NOTCHED PLASTIC BLOCKOUT FOR STEEL POSTS

ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED

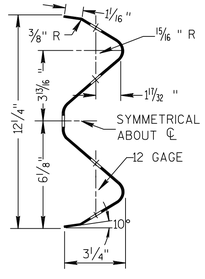
USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A36. GALVANIZED POSTS ACCORDING TO AASHTO M111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BR DRIVING AND REPAIR DAMAGE SPELTER COATING ON GALVANIZED POSTS.

2 C111 STEEL POST AND PLASTIC BLOCKOUT DETAIL NTS

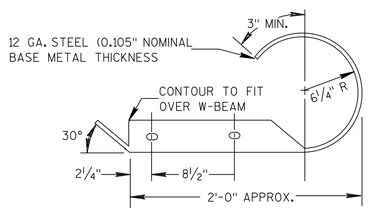


FRONT VIEW

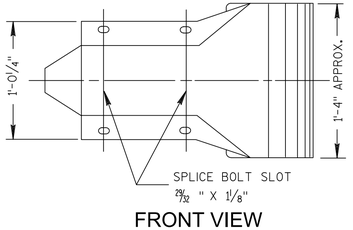
3 C111 BEAM GUARD POST SPACING DETAIL NTS



4 C111 SECTION THRU W/ BEAM DETAIL NTS

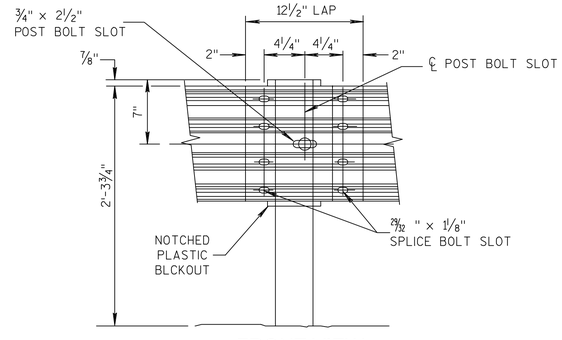


PLAN VIEW



FRONT VIEW

5 C111 BEAM END SECTION ROUNDED DETAIL NTS



FRONT VIEW
BEAM SPLICE AT STEEL POST

6 C111 TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD NTS

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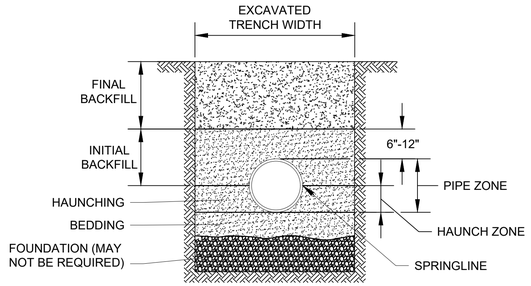
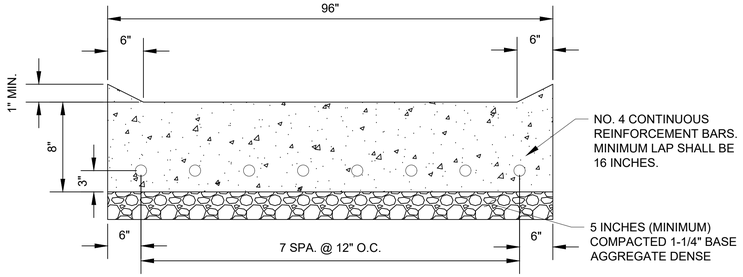


GENERAL NOTES:

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO ASTM D2321.
2. CLASS II EMBEDMENT MATERIAL SHALL BE CLEAN, COARSE-GRAINED SOILS WITH LITTLE TO NO FINES. NO PARTICLES LARGER THAN 1 1/2 -INCHES SHALL BE USED IN THE PIPE EMBEDMENT.
3. WHERE HYDRAULIC GRADIENT EXISTS USE A WELL-GRADED MIXTURE TO MINIMIZE MIGRATION OF FINES FROM ADJACENT SOIL.
4. CLASS II MATERIAL IS SUITABLE AS A FOUNDATION AND FOR REPLACING OVER- EXCAVATED AND UNSTABLE TRENCH BOTTOM. INSTALL AND COMPACT IN 6-INCH MAXIMUM LAYERS.
5. INSTALL AND COMPACT BEDDING IN 6-INCH MAXIMUM LAYERS. LEVEL FINAL GRADE BY HAND. MINIMUM DEPTH 4 INCH (6 INCH IN ROCK CUTS.)
6. INSTALL AND COMPACT HAUNCHING IN 6-INCH MAXIMUM LAYERS. WORK IN AROUND PIPE BY HAND TO PROVIDE UNIFORM SUPPORT.
7. INSTALL AND COMPACT INITIAL BACKFILL TO A MINIMUM OF 6 INCH ABOVE PIPE CROWN.
8. EMBEDMENT COMPACTION:

   MINIMUM DENSITY 85% STANDARD PROCTOR. USE HAND TAMPERS OR VIBRATORY COMPACTORS.
10. EMBEDMENT INCLUDES BEDDING, HAUNCHING, AND INITIAL BACKFILL.

1 C112 CLASS II - FLEXIBLE PIPE EMBEDMENT DETAIL
NTS

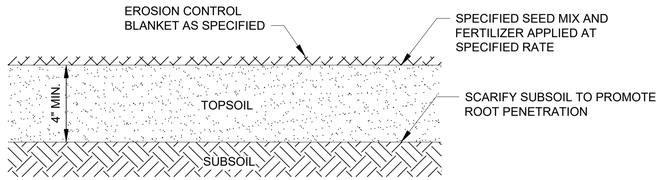


GENERAL NOTES:

1. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3 INCHES CLEAR.
2. BAR STEEL REINFORCEMENT SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS.
3. BAR STEEL REINFORCEMENT SHALL BE FREE OF ALL RUST AND MILL SCALE.
4. CAST-IN-PLACE CONCRETE SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS.
5. CONCRETE ACCESSORIES OF EXPANSION JOINT MATERIAL AND CURING COMPOUND SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS.

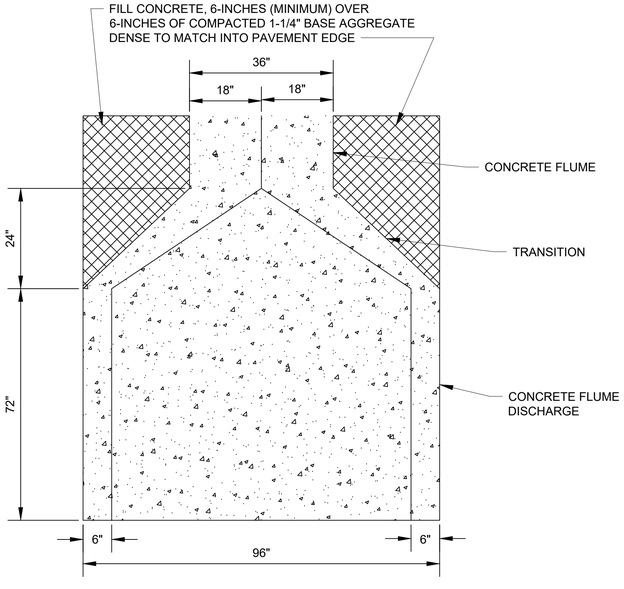
2 C112 CONCRETE FLUME DISCHARGE DETAIL
NTS

EROSION MAT SHALL BE INSTALLED ON ALL DISTURBED PERVIOUS SURFACES. EROSION MAT SHALL BE CLASS 1, URBAN. TYPE A MAY BE USED ON SLOPES FLATTER THAN 4H:1V. TYPE B SHALL BE USED ON ALL SLOPES BETWEEN 4H:1V AND 2.5H:1V. CONTRACTOR MAY ALSO CHOOSE TO INSTALL TYPE B ON ALL DISTURBED AREAS IN PLACE OF TYPE A AT THEIR OWN EXPENSE.

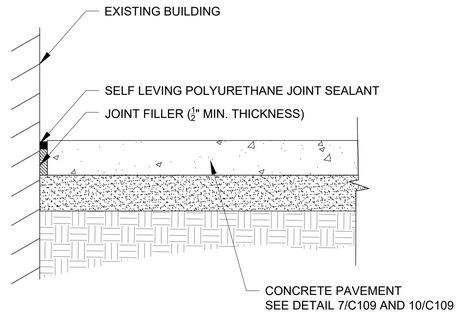


NOTE: WHERE REQUIRED, PLANT HERBACEOUS PLUGS ACCORDING TO PLAN, OR AS DIRECTED BY ENGINEER.

3 C112 TOPSOIL AND SEEDING DETAIL
NTS

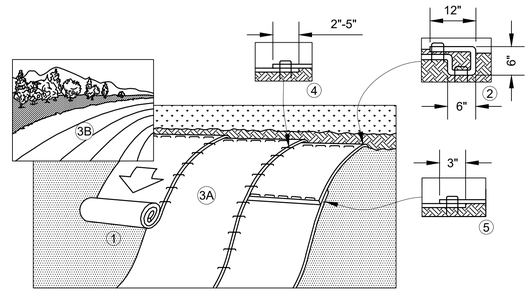


4 C112 CONCRETE FLUME TO DISCHARGE TRANSITION DETAIL
NTS



NOTES:
1. FELT MATERIAL IS NOT ALLOWED FOR JOINT FILLER
2. ALL JOINTS AND SURFACES MUST BE DRY AND CLEARED OF LOOSE MATERIAL PRIOR TO INSTALLING JOINT SEALANT MATERIAL.

5 C112 EXPANSION JOINT AND SEALANT DETAIL
NTS



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5 CM-12.5 CM) OVERLAP DEPENDING ON BLANKET TYPE.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE BLANKET WIDTH.

   NOTE:
   *IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

6 C112 EROSION MAT DETAIL
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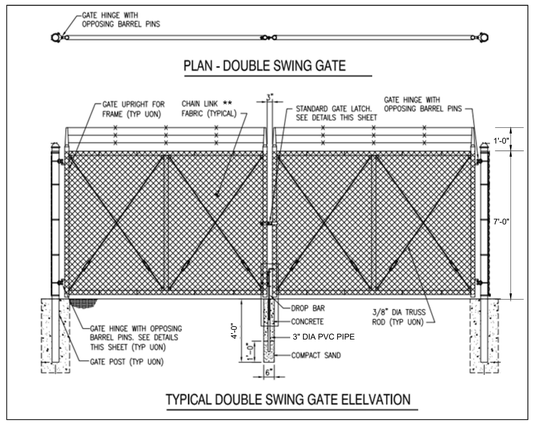
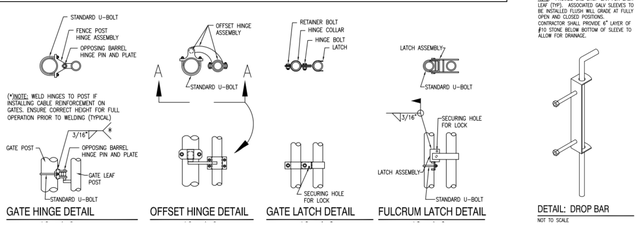


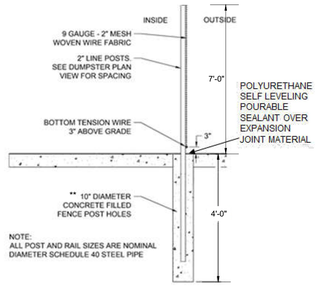


NOTE: PROVIDE ONE DROP BAR FOR EACH LEAF (TYP). ASSOCIATED GALV SLEEVES TO BE INSTALLED FLUSH WILL GRADE AT FULLY OPEN AND CLOSED POSITIONS. CONTRACTOR SHALL PROVIDE 6" LAYER OF #10 STONE BELOW BOTTOM OF SLEEVE TO ALLOW FOR DRAINAGE.

1 C113 DOUBLE SWING GATE AND HARDWARE DETAIL
NTS

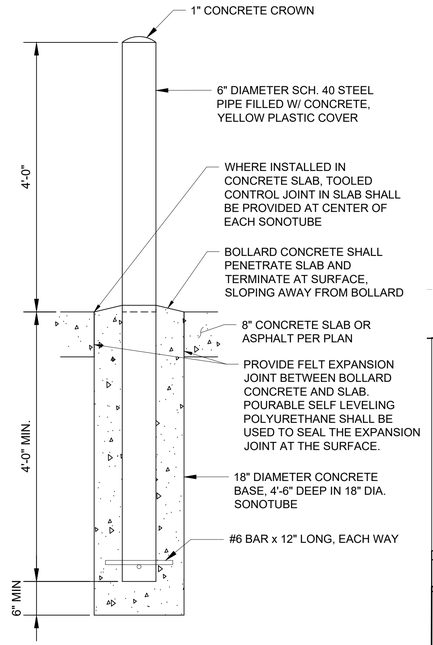
FENCE POST SIZE CHART

PIPE	SIZE
Bottom or Brace Rails	1 5/8 in (41mm)
Line Posts	2 ½ in (63.5mm)
Corner, end and pull posts)	4 in (102mm)
Single Gate Posts – equal or less than 12ft (3.7m) Width	4 in (102mm)
Double Gate Posts – equal or less than 24ft (7.3m) Width	4 in (102mm)
Single Gate Posts – greater than 12ft (3.7m and less than 18ft (5.5m) Width	6 5/8 in (168 mm)
Double Gate Posts – greater than 24ft (7.3m) and less than 36ft (11m) Width	6 5/8 in (168 mm)
Single Gate Posts – over 18ft (5.5m) Width	8 5/8 in (219 mm)
Double Gate Posts – over 36ft (11m) Width	8 5/8 in (219 mm)

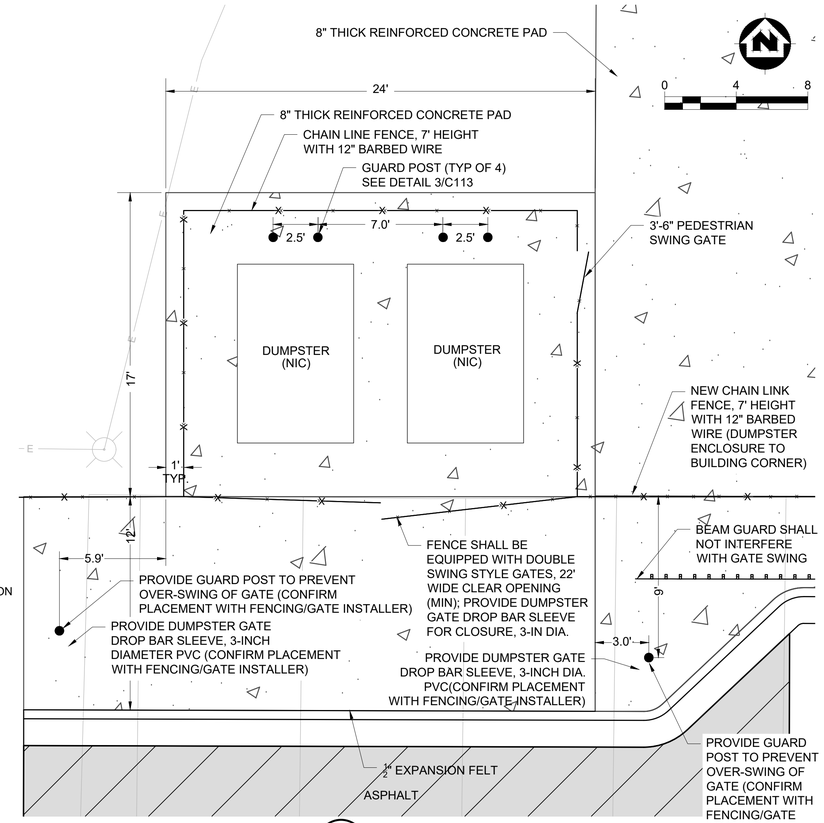


** 18" DIAMETER REQUIRED FOR 4" CORNER AND GATE POSTS

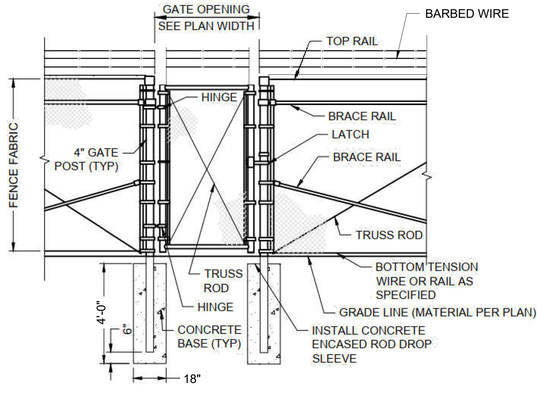
2 C113 DUMPSTER FENCE POST DETAIL
NTS



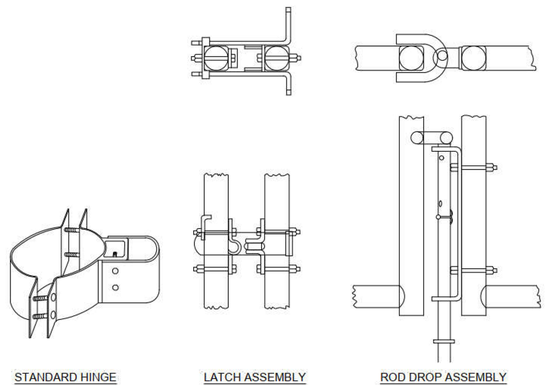
3 C113 GUARD POST DETAIL
NTS



4 C113 DUMPSTER FENCE PLAN



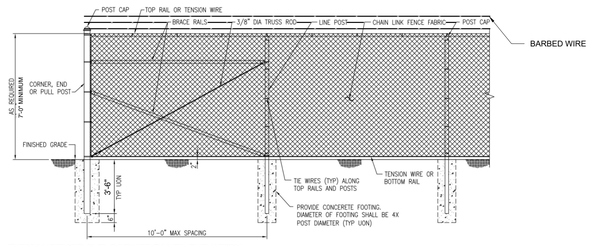
PERSONNEL GATE FENCE DETAIL
NO SCALE



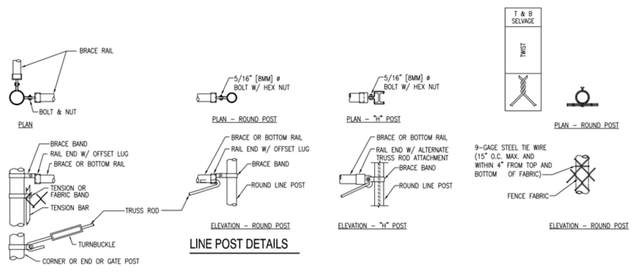
SWING GATE DETAILS
NO SCALE

NOTES
1. REINFORCEMENT BARS TO BE SUPPORTED ON 3" TALL BAR CHAIRS MANUFACTURED FOR THE INTENDED PURPOSE.
2. REQUIRED CONCRETE COMPRESSIVE STRENGHT: 4000 PSI (MIN) (30 DAY)
3. CONCRETE AIR ENTRAINMENT RANGE: 4-7 %
4. CONCRETE MUST BE PROVIDED BY A COMMERCIAL REDI-MIX PLANT. NO ON-SITE CONCRETE PRODUCTION IS ALLOWED.
5. PROVIDE A HEAVY BROOMED FINISH. PROVIDE SPRAYED CURING COMPOUND AFTER CONCRETE PLACEMENT
6. SAWN JOINTS SHALL BE COMPLETED WITHIN 12 HOURS OF CONCRETE PLACEMENT.
7. FILL FENCE POST AND BOLLARD POST HOLES WITH CONCRETE TO THE FINISHED SLAB ELEVATION. SONOTUBES ARE APPROVED FOR THIS PURPOSE. AVOID SUPPORTING THE CONCRETE SLAB ON THE POST HOLE CONCRETE COLUMNS.
8. SLOPE CONCRETE SLAB NO MORE THAN 2% TO PROVIDE DRAINAGE TO SURROUNDING TURF AREAS.
9. REINFORCEMENT IS NOT REQUIRED IN SIDEWALK CONCRETE. LIGHT BROOM FINISH THIS AREA.

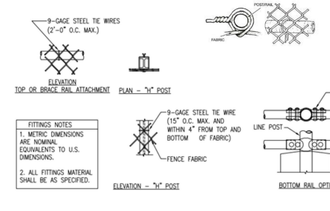
5 C113 PERSONNEL GATE AND HARDWARE DETAIL
NTS



TYPICAL FENCE AND CORNER PANEL ELEVATION
SCALE: 1" = 1'-0"



LINE POST DETAILS



6 C113 CHAIN LINK FENCE DETAIL
NTS

CHAIN LINK FENCING NOTES

1. FABRIC: THE STANDARD FENCE FABRIC SHALL BE VINYL, ZINC OR ALUMINUM-COATED STEEL WIRE CHAIN LINK WITH MESH OPENINGS NOT LARGER THAN TWO INCHES, PER SIDE AND A TWISTED AND BARBED SELVAGE AT TOP AND BOTTOM IN ACCORDANCE WITH THE SPECIFICATIONS. UTILIZE 6-GAUGE FOR BASE PERIMETER OR HEIGHTENED SECURITY ZONES AND 9-GAUGE FOR BASE INTERIOR OR WHEN JOINING AN EXISTING FENCE WHICH IS ALREADY 9-GAUGE.
2. FABRIC TIES: ONLY 12-GAUGE STEEL TIES SHALL BE USED. COATING OR PLATING WILL BE ELECTROLYTICALLY COMPATIBLE WITH THE FENCE FABRIC TO INHIBIT CORROSION.
3. REINFORCEMENT: TENSION WIRES SHALL BE INSTALLED AND INTERWOVEN (OR AFFIXED WITH FABRIC TIES) ALONG THE TOP & BOTTOM OF THE FENCE FOR STABILIZATION OF THE FENCE FABRIC.
4. FENCE HEIGHT: CHAIN LINK FABRIC SHALL BE 7' HIGH WITH AN ADDITIONAL 1' IN HEIGHT COMPOSED OF 3 STRANDS OF BARBED WIRE AS REQUIRED. THE TOTAL FENCE HEIGHT SHALL BE 8'.
5. GROUND CLEARANCE: BOTTOM OF THE FENCE FABRIC SHALL BE WITHIN TWO INCHES OF FIRM SOIL.
6. TOP GUARDS: A TOP GUARD IS AN OVERHAND OF BARBED WIRED ALONG THE TOP OF A FENCE, FACING OUTWARD (AWAY FROM PROTECTED SITE) AND UPWARD AT APPROX. 45° ANGLE. TOP GUARD SUPPORTING ARMS WILL BE PERMANENTLY AFFIXED TO THE TOP OF FENCE POSTS TO INCREASE THE OVERALL HEIGHT OF THE FENCE AT LEAST 1 FOOT. THREE STRANDS OF 12-GAUGE BARBED WIRE, EQUALLY SPACED, SHALL BE INSTALLED ON THE SUPPORTING ARMS. BARBED WIRE ON GATES MAY BE STRAIGHT UP.
7. FENCE POSTS: SHALL BE ASTM F1043 OR F1083 ROUND PIPE OR SQUARE TUBE AND SHALL BE GALVANIZED IN ACCORDANCE WITH THE SPECIFICATIONS. FENCE POST SPACING AND SIZE (DIAMETER) SHALL BE DETERMINED IN ACCORDANCE WITH CHAIN LINK FENCE MANUFACTURERS' INSTITUTE (MLO 2445). SPACING SHALL NOT EXCEED 10'-0" O.C. SIZE (DIAMETER) SHALL NOT BE LESS THAN THAT SPECIFIED.

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Sheet Title: DUMPSTER PAD—FENCE DETAILS

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LUMINAIRE SCHEDULE

TAG	DESCRIPTION	WATTS	LAMP TYPE	CCT	MANUFACTURER	CATALOG NUMBER	BUG RATING	NOTE
PL-1	LITHONIA RSX1 LED, DARK BRONZE FINISH	72.95	LED	3000K	LITHONIA	RSX1 LED-P2-30K-R4-MVOLT-SPUMBA-DF-BAA-DDBXD	2,0,2	1,2,3
PL-2	LITHONIA RSX1 LED, HOUSE-SIDE SHIELD, DARK BRONZE FINISH	109.44	LED	3000K	LITHONIA	RSX1 LED-P3-30K-R3-MVOLT-SPUMBA-HSDF-BAA-DDBXD	2,0,2	1,2,3,4

GENERAL NOTES:
1. ALL FIXTURES SHALL BE UNIVERSAL VOLTAGE UNLESS OTHERWISE INDICATED.
2. ALL LED FIXTURES SHALL BE DESIGNLIGHTS$_{TM}$ CONSORTIUM AND DARK SKYS QUALIFIED.
3. FIXTURES BY MANUFACTURERS OTHER THAN THOSE SHOWN IN THE SCHEDULE SHALL BE CONSIDERED EQUAL PROVIDED THEY ARE OF SIMILAR QUALITY OF CONSTRUCTION AND HAVE ALL FEATURES, OPTIONS AND ACCESSORIES AS THE SCHEDULED FIXTURE.

FIXTURE NOTES:
1. MOUNT ABOVE AS INDICATED ON THE PLANS. SUPPY ALL REQUIRED MOUNTING HARDWARE, SEE PLAN.
2. FIXTURE SHALL BE SUPPLIED IN DARK BRONZE FINISH, WITH SQUARE POLE MOUNTING HARDWARE.
3. FIXTURE SHALL BE BUY AMERICA(N) ACT AND/OR BUILD AMERICA BUY AMERICA QUALIFIED.
4. FURNISH WITH HOUSE SIDE SHIELD.

POLE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	FINISH	EPA RATING	BASE	NOTES
ALL	SQUARE STEEL POLE, STRAIGHT, 7 GAUGE WALL (0.179")	LITHONIA	SSS 25 5G DM19AS DDBXD	DARK BRONZE	5.5	CONCRETE	1,2,3,4, 5.

NOTES:
1. POLE CONFIGURATION SHALL BE USED AT ALL PROPOSED LUMINAIRE LOCATIONS.
2. POLES BY MANUFACTURERS OTHER THAN THOSE SHOWN IN THE SCHEDULE SHALL BE CONSIDERED EQUAL PROVIDED THEY ARE OF SIMILAR QUALITY OF CONSTRUCTION AND HAVE ALL FEATURES SCHEDULED.
3. FURNISH WITH STEEL HANDHOLE COVER AND TWO-PIECE STEEL BASE COVER.
4. POLE SHALL BE BUY AMERICA(N) ACT AND/OR BUILD AMERICA BUY AMERICA QUALIFIED.
5. EPA RATING BASED ON 3 SECOND GUST AT 110 MPH PER AASHTO 2013 AND ASCE7-05 WIND MAP.

RACEWAY, BOX, AND HARDWARE SCHEDULE

AREA CLASSIFICATION	INSTALLATION	CONDUIT	BOX	HARDWARE
NEW CONSTRUCTION - WET	UNDERGROUND	PVC40/PVC80	N/A	N/A
NEW CONSTRUCTION - WET	EXTERIOR - EXPOSED	RMC	NEMA 3R	SS
EXISTING - DRY	INTERIOR - EXPOSED	RMC	NEMA 1	GS

SPACE CLASSIFICATIONS

AREA	CLASSIFICIATION
SITE	NEW CONSTRUCTION - WET
BOILER ROOM 112	EXISTING - DRY

NOTES:
1. ALL CONDUIT AND RACEWAYS SHALL BE CONCEALED TO THE GREATEST EXTENT POSSIBLE.
2. NO SUBSTITUTIONS SHALL BE ALLOWED UNLESS WRITTEN PERMISSION TO THE CONTRARY HAS BEEN OBSTAINED FROM ENGINEER.
3. TRANSITION TO EXPOSED CONDUIT SHALL COMPLY WITH SPECIFIED REQUIREMENTS FOR EXPOSED CONDUITS, REGARDLESS OF WHETHER TRANSITION IS RIGID OR FLEXIBLE. EMBEDDED TRANSISTIONS SHALL BE RIGID MATERIAL.

ABBREVIATIONS:

CONDUIT
PVC80: PVC SCH 80
PVC40: PVC SCH 40
RMC: GALVANIZED RIGID METALLIC CONDUIT

HARDWARE
SS: STAINLESS STEEL
GS: GALVANIZED STEEL

IN GROUND HANDHOLE SCHEDULE

TAG	DESCRIPTION	MODEL NUMBER
PJB-1	13" X 24" STACKABLE TYPE POWER UNDERGROUND PULL/JUNCTION BOX, 24" BOX HEIGHT ANSI TIER 22 BOX, BOX WITH OPEN BOTTOM ANSI TIER 22 COVER HEAVY DUTY COVER WITH 2 BOLTS COVER WITH "ELECTRIC" LOGO	QUAZITE MODEL PG1324BA24 12" UPPER & LOWER STACKED BOX SECTIONS QUAZITE MODEL PG1324HA00 COVER WITH "ELECTRIC" LOGO

ELECTRICAL SYMBOLS AND ABBREVIATIONS

THIS IS A COMPREHENSIVE SYMBOL AND ABBREVIATION LIST.
NOT ALL SYMBOLS ARE APPLICABLE TO THESE DRAWINGS.

- S — SINGLE POLE SWITCH, 3=3 WAY, 4=4 WAY, P=PILOT R=RELAY, K=KEYED, I=ILLUMINATED, D=DIMMER M=MOTION SENSOR SWITCH
- DUPLEX RECEPTACLE C=CEILING MOUNTED
- DUPLEX RECEPTACLE MOUNTED AT 44" TO BOTTOM
- POWER RECEPTACLE 240V 30=30AMP 60=60AMP R = 50A RANGE OUTLET D = 30A DRYER OUTLET
- DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER
- IG — ISOLATED GROUND RECEPTACLE
- SP — SURGE PROTECTED RECEPTACLE
- UPS SYSTEM RECEPTACLE
- DOUBLE DUPLEX RECEPTACLE (RECEPTACLES MOUNTED SIDE BY SIDE)
- BLANK OUTLET FOR FUTURE DEVICES 4" DEEP BOX, SINGLE GANG RING, BLANKPLATE, 1"C. STUBBED INTO ACCESSIBLE CEILING
- BLANK OUTLET MTD @ 44" FOR FUTURE DEVICES 4" BOX, SINGLE GANG RING, BLANKPLATE, 1"C. STUBBED INTO ACCESSIBLE CEILING
- WIREMOLD PLUG STRIP. SEE DETAILS
- DUPLEX RECEPTACLE IN FLOOR, FLUSH MTD A,B,C = TYPE PER SPECIFICATION.
- EQUIPMENT CONNECTION
- X X — DATA (SHADED) AND VOICE (UNSHADED) OUTLET. SEE DETAILS. X INDICATES NUMBER OF DROPS FOR PHONE AND DATA. PROVIDE 4" SQUARE DEEP BOX, 1-GANG RING, 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING. NO "X" INDICATES SINGLE DROP.
- X — TELEPHONE OUTLET. SEE DETAIL. X INDICATES NUMBER OF DROPS PER OUTLET. NO X INDICATES 1 DROP. PROVIDE 4" SQUARE DEEP BOX, 1-GANG RING, 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING.
- W — WALL TELEPHONE MOUNTED AT 48" AFF. PROVIDE 4" SQUARE DEEP BOX, 1-GANG RING, 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING.
- X — DATA OUTLET ONLY. SEE DETAIL. X INDICATES NUMBER OF PHONE DROPS PER OUTLET. NO X INDICATES 1 DROP. PROVIDE 4" SQUARE DEEP BOX, 1-GANG RING, 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING.
- J — J-BOX
- HEAVY DUTY DISCONNECT F=FUSIBLE WP=WEATHERPROOF FURNISHED BY E.C.
- NON-COMBINATION STARTER
- NEW SURFACE MOUNTED PANEL. SEE PLANS.
- NEW FLUSH MOUNTED PANEL. SEE PLANS.
- EXISTING SURFACE MOUNTED PANEL. SEE PLANS.
- EXISTING FLUSH MOUNTED PANEL. SEE PLANS.
- IN GROUND HANDHOLE BOX
- XXX / XXXX — TYPE; EQUIPMENT LOCATION; DESIGNATION
- XX / XXX — REFERS TO DETAIL; SHEET NO. WHERE DETAIL IS LOCATED
- X-X-X — MISCELLANEOUS EQUIPMENT TAG
- XX-X — LIGHT FIXTURE TAG

- X — FIRE ALARM AUDIO/VISUAL NOTIFICATION APPLIANCE, X = CD LEVEL
- R — REDUCED db ROOM SOUNDER AUDIO/VISUAL NOTIFICATION APPLIANCE
- F — FIRE ALARM INDICATOR FOR SMOKE DETECTORS
- ADDRESSABLE FIRE ALARM INPUT/OUTPUT
- F — FIRE ALARM STATION
- S X — XENON STROBE, X = CD LEVEL AUDIO/VISUAL,
- FS XX — CEILING MOUNTED (XX = CANDELA RATING)
- S X — XENON STROBE, CEILING MOUNTED, X = CD LEVEL
- TS — SPRINKLER TAMPER SWITCH SPRINKLER
- FS — FLOW SWITCH
- K — KEYPAD
- CR — CARD READER
- DS — DOOR SWITCH
- ES — ELECTRIC STRIKE
- ARS — AREA OF REFUGE STATION
- ARM — AREA OF REFUGE MASTER
- ARL — AREA OF RESCUE ILLUMINATED SIGN
- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL
- H — HEAT DETECTOR
- S — SMOKE DETECTOR
- ES — ELEVATOR SMOKE DETECTOR
- PC — PHOTO CONTROL
- C — CEILING SPEAKER
- C — WALL MOUNTED CALL-IN SWITCH BOX OR HANDSET
- W — WALL MOUNTED SPEAKER BOX
- MK — MOTION DETECTOR
- WALL CLOCK ANALOG. WG = WIRE GUARD DOUBLE FACED
- WALL CLOCK. WG = WIRE GUARD
- CEILING MOUNTED FLUSH OR SURFACE
- WALL MOUNTED, FLUSH OR SURFACE
- FLUORESCENT FIXTURE
- EMERGENCY LIGHT
- R — RECESSED EMERGENCY LIGHT
- EXIT LIGHT
- X — REFERS TO NOTE NUMBER
- XXX-XX — REFERS TO DETAIL NUMBER
- CIRCUIT HOMERUN TO 20A/1P BREAKER UNLESS SHOWN OTHERWISE ON DRAWINGS
- INDICATES CONNECTED TO SAME CIRCUIT BUT CONTROLLED SEPARATELY
- X — MOTOR OUTLET TERMINAL. ON ROOF MOUNTED UNITS PROVIDE WEATHER PROOF DISCONNECTS. X = HORSE POWER OR MOTOR NUMBER IF SCHEDULE IS PROVIDED.
- COMBINATION STARTER
- MS — MANUAL STARTER
- U — ULTRASONIC LIGHTING CONTROL
- OCCUPANCY SENSOR
- CONDUIT STUB THROUGH WALL, 1" ABOVE CEILING BUSHED EACH END
- POLE MOUNTED EXTERIOR LIGHT FIXTURE

AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
C	CONDUIT
CCU	COOLING CONDENSER UNIT
CKT	CIRCUIT
CT	CURRENT TRANSFORMER
CON	CONTACTOR
CP	CONTROL PANEL
DIS	DISCONNECT
DM	DEMARC
DS	DOOR SWITCH
EBB	ELECTRICAL BASE BOARD
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
ELEV	ELEVATION
EM	EMERGENCY
EQ	EQUIPMENT
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WALL HEATER
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
GUH	GAS UNIT HEATER
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
INC	INCANDESCENT
LC	LIGHTING CONTROL
MAU	MAKEUP AIR UNIT
MDF	MAIN DISTRIBUTION FRAME
MOD	MOTOR OPERATED DAMPER
MTD	MOUNTED
NL	NIGHT LIGHT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OHD	OVERHEAD DOOR
OC	ON CENTER
PC	PHOTO CONTROL
PNL	PANELBOARD
RCP	RELAY CONTROL PANEL
REF	REFRIGERATOR
RTU	ROOF TOP UNIT
SS	STAINLESS STEEL
TC	TELECOMMUNICATION CLOSET
TRN	TRANSFORMER
TRS	TRANSFER SWITCH
TTB	TELEPHONE TERMINAL BOARD
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
UH	UNIT HEATER
VFD	VARIABLE FREQUENCY DRIVE
WE	WALL EXHAUST
WH	WATER HEATER
WP	WEATHER PROOF

FEEDER SCHEDULE (600 V)

FEEDER AMPACITY	CONDUCTOR SIZE (kcmil) Ø & N	GRD	CONDUIT SIZE 3Ø & GRD.	3Ø & N & GRD.
20	#12	#12	3/4"	3/4"
30	#10	#10	3/4"	3/4"
40	#8	#10	3/4"	1"
50	#6	#8	1"	1"
70	#4	#8	1-1/4"	1-1/4"
80	#3	#8	1-1/4"	1-1/4"
100	#3	#8	1-1/4"	1-1/4"
110	#2	#6	1-1/2"	1-1/2"
125	#1	#6	1-1/2"	2"
150	#1/0	#6	1-1/2"	2"
175	#2/0	#6	2"	2"
200	#3/0	#6	2"	2-1/2"
225	#4/0	#4	2"	2-1/2"
250	#250	#4	2-1/2"	3"
300	#250	#4	3"	3"
350	#500	#3	3"	3-1/2"
380	#500	#3	3"	3-1/2"
400	(2) #3/0	(2) #3	(2) 2"	(2) 2-1/2"
450	(2) #4/0	(2) #2	(2) 2"	(2) 2-1/2"
500	(2) #250	(2) #2	(2) 2-1/2"	(2) 3"
600	(2) #350	(2) #1	(2) 3"	(2) 3"
700	(2) #500	(2) #1/0	(2) 3"	(2) 3-1/2"
800	(2) #600	(2) #1/0	(2) 3-1/2"	(2) 4"
1000	(3) #400	(3) #2/0	(3) 3"	(3) 3-1/2"
1200	(3) #600	(3) #3/0	(3) 3-1/2"	(3) 4"
1600	(4) #600	(4) #4/0	(4) 3-1/2"	(5) 4"
2000	(5) #600	(5) #250	(5) 3-1/2"	(5) 4"

GENERAL NOTES:

1. THE ABOVE FEEDER SCHEDULE IS A SCHEDULE OF TYPICAL FEEDS AND SOME SIZES MAY NOT BE UTILIZED.
2. CONDUIT FOR FEEDERS UTILIZING MULTI-CONDUCTOR CABLING (SUCH AS SHIELDED AFD CABLE) SHALL BE SIZED BASED ON ACTUAL CABLE SPECIFICATIONS.
3. ALL CONDUCTOR AMPACITIES ARE BASED ON TABLE 310-16 OF THE NEC FOR COPPER CONDUCTOR TYPE THW/THWN.
4. FEEDER SIZES SHOWN ON THE RISER DIAGRAM INDICATE FEEDER AMPACITIES AND DO NOT NECESSARILY CORRESPOND TO CIRCUIT BREAKER AMPACITIES. CERTAIN FEEDERS MAY BE SIZED FOR THE DURATION FACTORS REQUIRED BY CODE AND/ OR ARE OVERSIZED FOR VOLTAGE DROP.
5. WHERE MULTIPLE CONDUITS ARE INDICATED FOR A SINGLE FEEDER EACH CONDUIT SHALL CONTAIN AN AØ, BØ, CØ, GROUND CONDUCTOR, AND NEUTRAL CONDUCTOR.

200-4G — FEEDER DESIGNATION

- SYSTEM DESCRIPTION
  - (2G) 1Ø, 2W + GRD
  - (3G) 3Ø, 3W + GRD
  - (4G) 3Ø, 4W + GRD
- CONDUCTOR AMPACITY (SEE FEEDERS SCHEDULE)

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Sheet Title: ELECTRICAL SCHEDULES, ABBREVIATIONS, & SYMBOLS

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GENERAL NOTES

TURN OFF ELECTRICAL CIRCUIT TO OUTDOOR LIGHTING WHEN WORKING ON POLE LIGHTING SYSTEM.

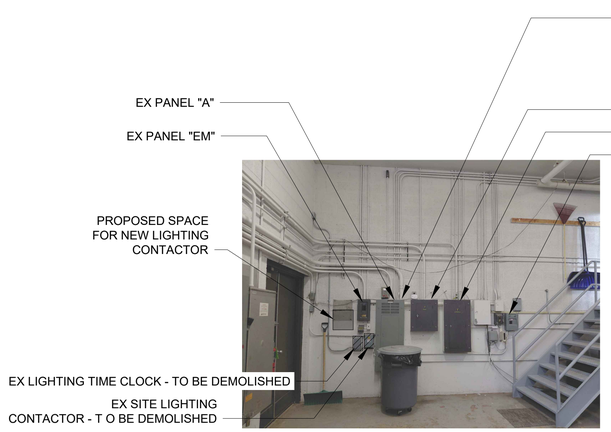
TURN ON ELECTRICAL CIRCUIT UPON DFD INSPECTION AND COMPLETION OF LIGHT FIXTURE INSTALLATION WORK.

TRAIN OWNER OF THE NEW LIGHTING OPERATION AND CAPABILITIES. TURN OVER O&M MANUALS UPON COMPLETION OF TRAINING.

EC SHALL COORDINATE WITH 23A1T ELECTRICAL CONTRACTOR FOR PROPOSED MODIFICATIONS TO EXISTING PANEL "A" CIRCUITRY. PANEL SCHEDULE SHOWN ON SHEET E401 REFLECTS PANEL "A" CIRCUITRY POST-23A1T PROJECT COMPLETION.

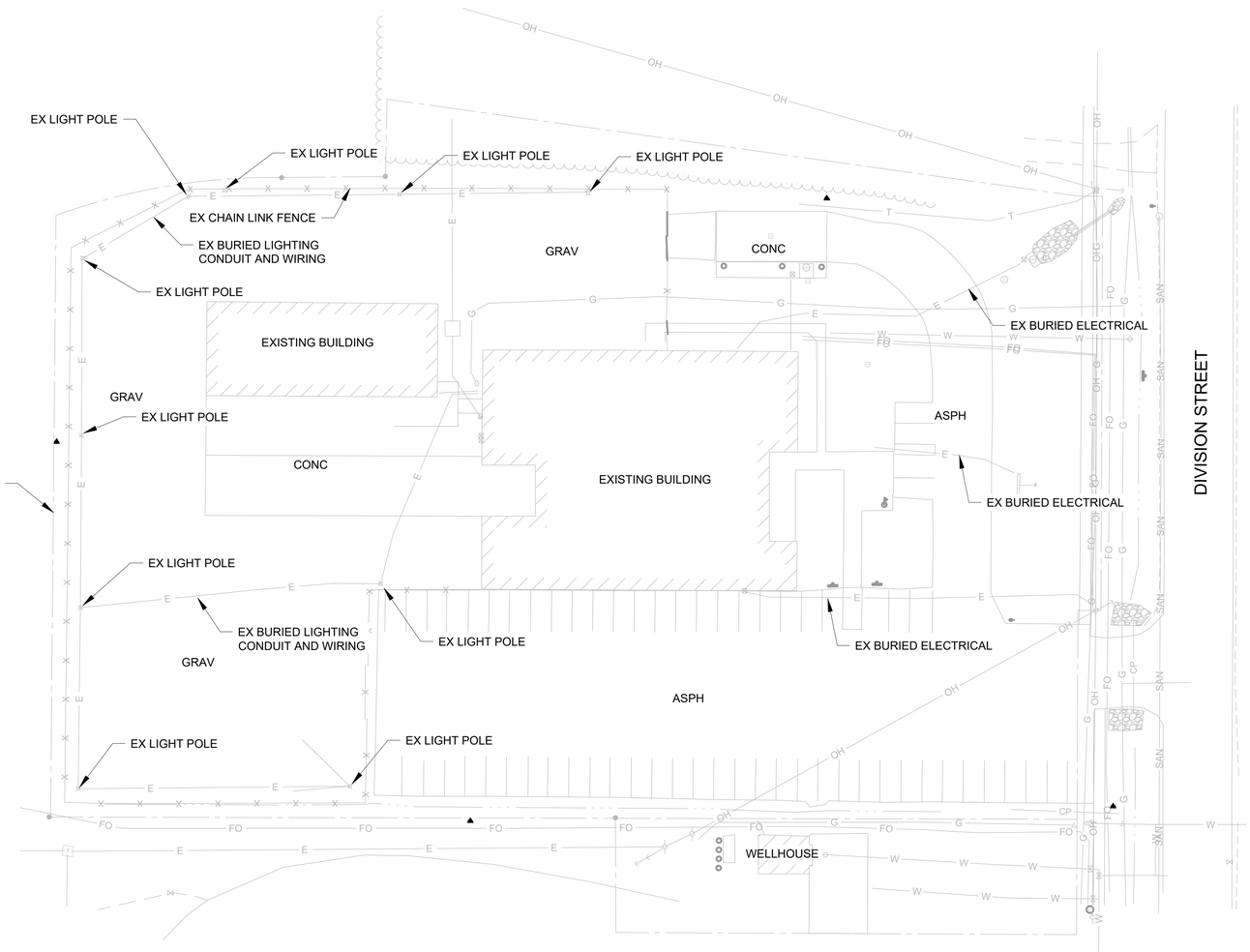
B E100 BOILER ROOM - EXISTING PANEL A

NO SCALE



A E100 BOILER ROOM - LOOKING NORTH

NO SCALE



EXISTING ELECTRICAL PLAN - SITE

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Sheet Title: EXISTING ELECTRICAL SITE PLAN & PHOTOS

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GENERAL NOTES

TURN OFF ELECTRICAL CIRCUIT TO OUTDOOR LIGHTING WHEN WORKING ON POLE LIGHTING SYSTEM.

PROVIDE CONCRETE BASES AT ALL PROPOSED POLE MOUNTED FIXTURE LOCATIONS PER DETAIL 1/E501. REFER TO POLE CUTOUT DETAIL 3/E501 FOR WIRING INSTALLATION INSTRUCTIONS.

TURN ON ELECTRICAL CIRCUIT UPON DFD INSPECTION AND COMPLETION OF LIGHT FIXTURE WORK.

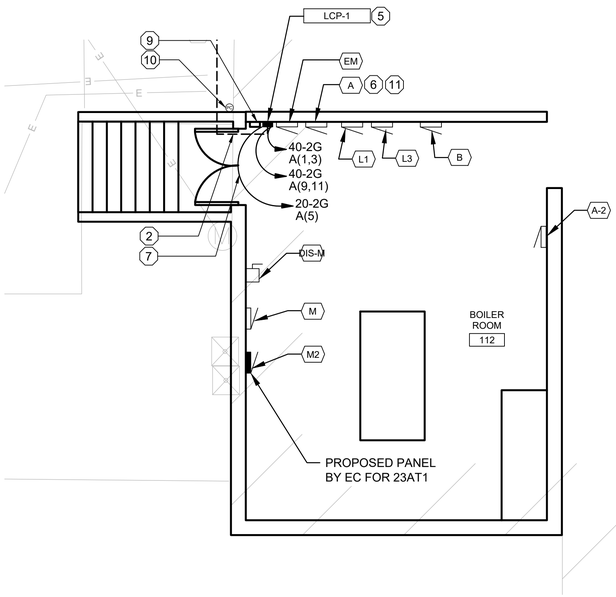
TRAIN OWNER OF THE NEW LIGHTING OPERATION AND CAPABILITIES. TURN OVER O&M MANUALS UPON COMPLETION OF TRAINING.

ALL CONDUIT UNDER TRAFFIC/ROAD AREAS SHALL BE SCHEDULE 80 PVC, UNO.

INSTALL PROPOSED BURIED CONDUIT IN ACCORDANCE WITH SPECIFICATIONS AND DETAIL 2/E501

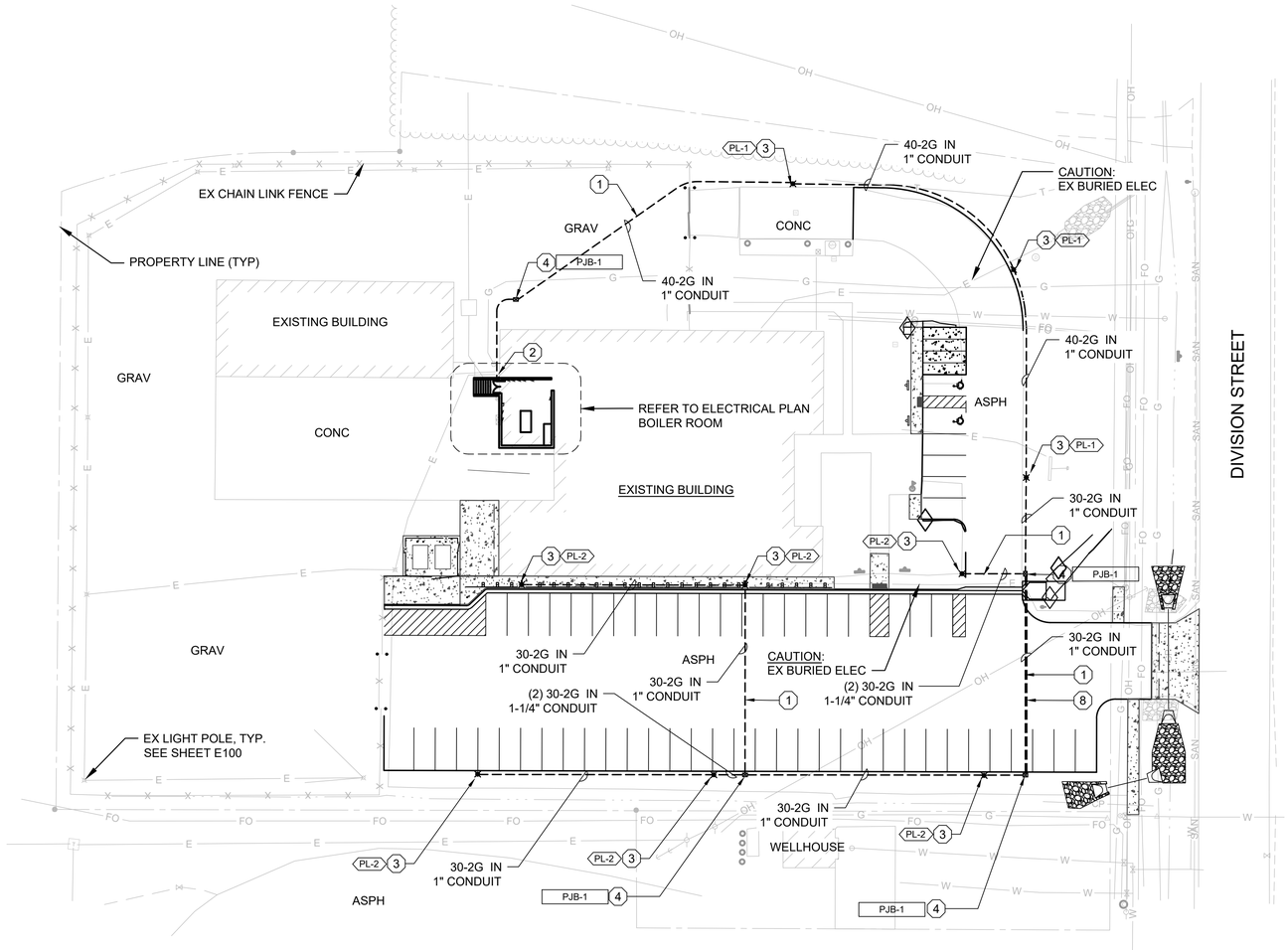
PLAN NOTES (#)

1. PROVIDE SCH 80 PVC CONDUIT AT ALL LOCATIONS UNDER AREAS SUBJECT TO CIVILIAN AND MILITARY VEHICLE TRAFFIC.
2. PROVIDE WALL PENETRATION AND CONDUIT TRANSITION FROM GRADE TO EXPOSED PER DETAIL 7/E501
3. PROVIDE NEW CONCRETE BASE, LIGHT, AND LUMINAIRE AS SCHEDULED. REFER TO DETAILS 1/E501, 3/E501, AND 6/E501.
4. PROVIDE BELOW IN GROUND HANDHOLE (PULL BOX) AS SCHEDULED. REFER TO DETAIL 5/E501 FOR INSTALLATION REQUIREMENTS.
5. PROVIDE NEW SITE LIGHTING CONTROL PANEL. MOUNT TO EXISTING WALL WEST OF EXISTING PANEL "A" PER DETAIL 4/E501. REFER TO DETAIL B/E401 FOR CONTROL DETAILS.
6. PROVIDE NEW 30A/2P BREAKER FOR NEW SITE LIGHTING CONTACTOR IN PANEL A(9,11). COODINATE WITH EC FOR 23AT1 FOR PANEL "A" MODIFICATIONS. REFER TO PANEL SCHEDULE ON SHEET E401. COORDINATE WITH AGENCY FOR POWER INTERRUPTION.
7. PROVIDE 120V (20-2G) CONTROL WIRING TO PROPOSED LIGHTING CONTROL PANEL FROM PANEL "A". UTILIZE EXISTING SPARE 20/1P BREAKER ON CIRCUIT 5 IN PANEL A.
8. PROVIDE SPARE 1-1/4" SCH80 PVC CONDUIT UNDER PAVEMENT. STUB AND CAP INTO HANDHOLES.
9. DEMOLISH EXISTING SITE LIGHTING TIMECLOCK ENCLOSURE. SALVAGE WIRING FROM EXISTING PHOTOCELL.
10. EXISTING PHOTOCELL, TO REMAIN. REROUTE CONDUCTORS TO NEW LIGHTING CONTROL PANEL.
11. DEMOLISH EXISTING LIGHTING CONTACTOR AND ENCLOSURE. PROVIDE NEW 40-2G WIRING TO NEW CONTACTOR IN PROPOSED LIGHTING PANEL.



ELECTRICAL PLAN - BOILER ROOM

0 5 10



ELECTRICAL PLAN - SITE

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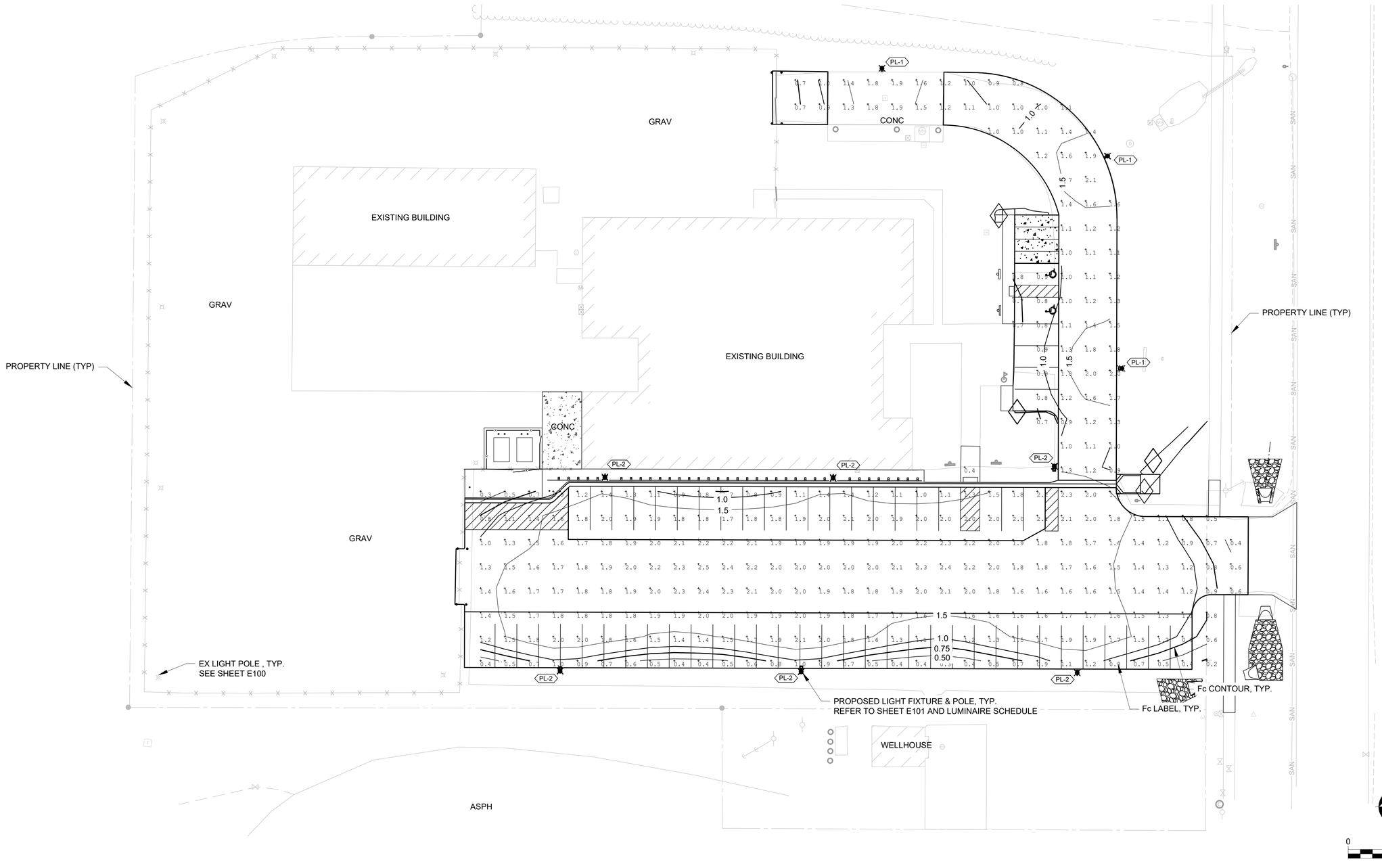
GENERAL NOTES

ALL SIMULATIONS PERFORMED USING AGI32 LIGHTING SOFTWARE

EXISTING WALLPACK AND SITE LIGHTING CONTRIBUTION IS NOT INCLUDED IN NEW PARKING LOT ANALYSIS

ILLUMINANCE VALUES SHOWN ON PLAN AND TABLE ARE AT GRADE MODELING OUTPUTS.

PHOTOMETRIC SUMMARY							
AREA	CALCULATION TYPE	UNITS	AVERAGE	MAX	MIN	AVG/MIN	MAX/MIN
PARKING LOTS	ILLUMINANCE	Fc	1.44	2.5	0.2	7.2	12.5
TARGET	ILLUMINANCE	Fc	1.5	N/A	0.2	N/A	20



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Department of Administration
Division of Facilities Development

919 Division Street
Mauston, Wisconsin

Parking Lot Pavement Improvements
Mauston Readiness Center
Department of Military Affairs
Mauston, Wisconsin

Sheet Title: PHOTOMETRIC PLAN

Revisions:

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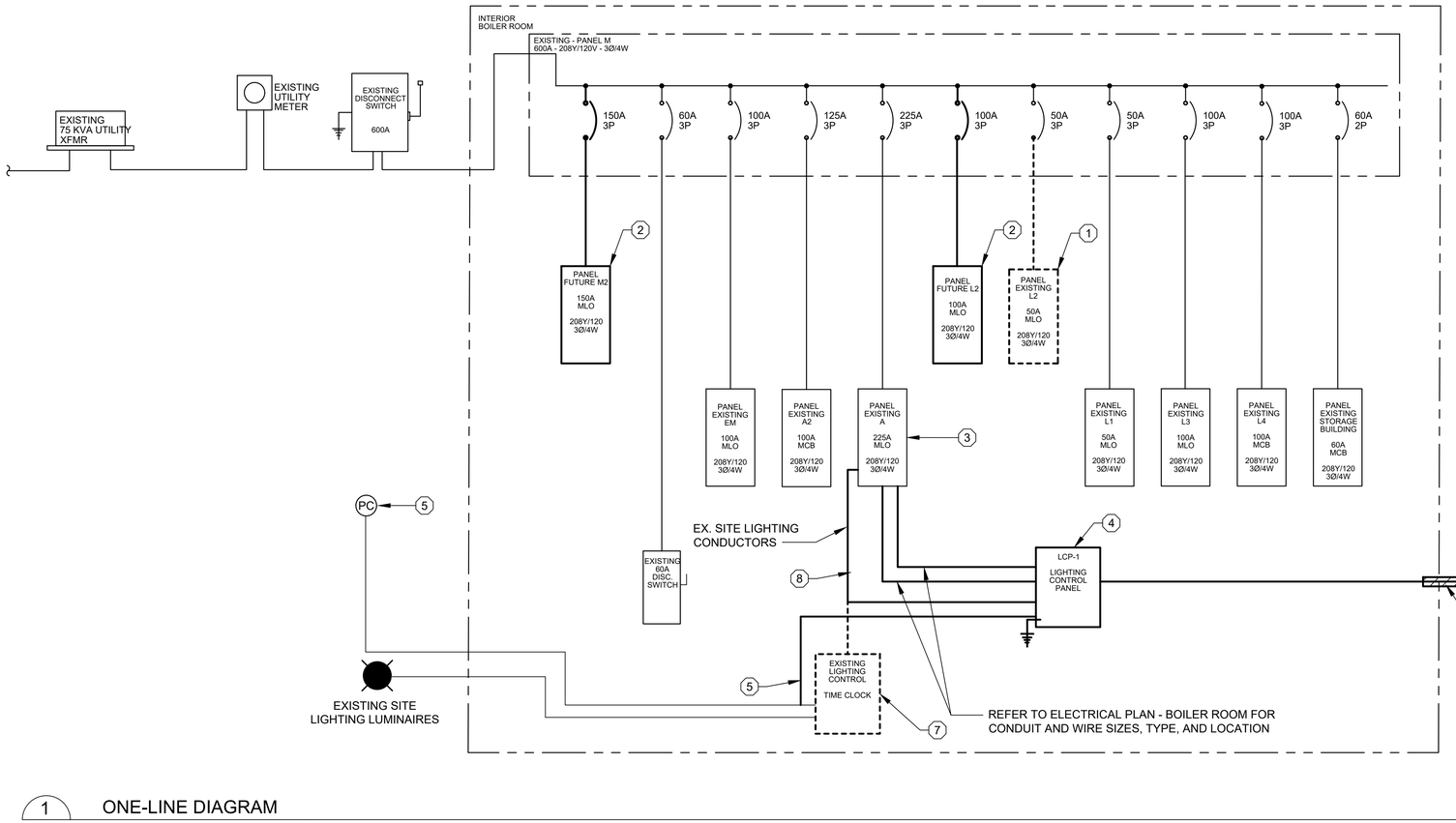
PLOT DATE/TIME: 12/19/2025 10:36 AM, FILE: g:\00\00374\00374215\CADD\construction documents\24E8C PHOTOMETRIC PLAN.dwg



1 E401 ONE-LINE DIAGRAM

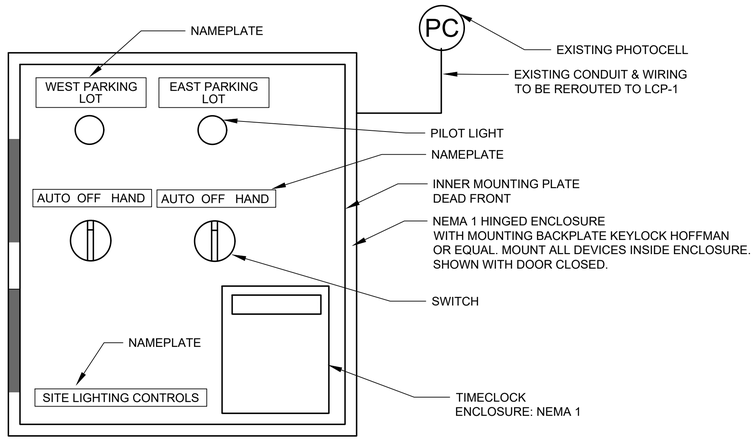
NO SCALE

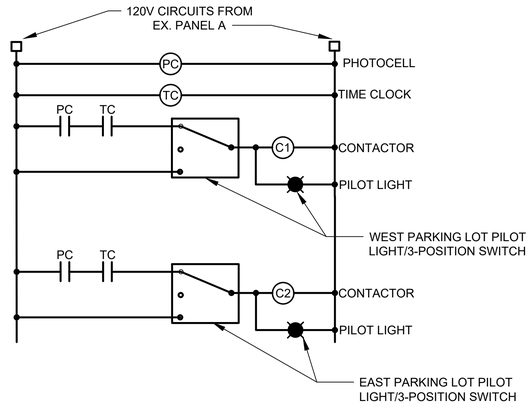
ONE-LINE LEGEND

- EXISTING EQUIPMENT/WIRING - TO REMAIN
- EXISTING EQUIPMENT/WIRING - TO BE DEMOLISHED
- PROPOSED OR FUTURE EQUIPMENT/WIRING

PLAN NOTES (#)

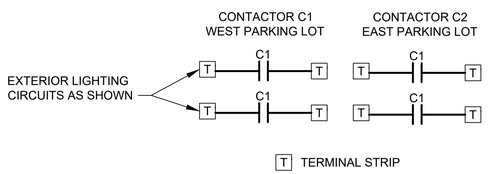
1. EXISTING PANEL TO BE REMOVED BY EC FOR 23A1T PROJECT.
2. FUTURE PANEL TO BE INSTALLED BY EC FOR 23A1T PROJECT.
3. PROVIDE NEW 30A/2P CIRCUIT BREAKER FOR NEW LIGHTING CIRCUIT. REMOVE EXISTING SPARE BREAKER IN PANEL AND TURNOVER TO OWNER. EC FOR 24E8C TO COORDINATE WITH EC FOR 23A1T FOR LIGHTING CONTACTOR PANEL BRANCH CIRCUIT INSTALLATION.
4. PROVIDE NEW LIGHTING CONTROL PANEL. REFER TO DETAIL 2/401 FOR PANEL COMPONENTS.
5. EXISTING PHOTOCELL TO REMAIN. REROUTE WIRING TO NEW LIGHTING CONTROL PANEL LCP-1
6. PROVIDE WALL PENETRATION AND CONDUIT EMERGING FROM GRADE PER DETAIL 7/E501.
7. DEMOLISH EXISTING SITE LIGHTING TIMECLOCK ENCLOSURE.
8. REROUTE EXISTING SITE LIGHTING CONDUCTORS TO NEW CONTACTOR LOCATED IN LIGHTING CONTROL PANEL





COMPONENTS:

CONTACTORS:	MECHANICALLY HELD 2-WIRE CONTROL, DAYTON 6GVNVO OR EQUAL
TIMECLOCK:	INTERMATIC ET2125C ELECTRONIC 365 DAY, OR EQUAL
PHOTOCONTROL:	EXISTING (REROUTE AS REQ'D)
PILOT LIGHTS:	120V LED TYPE, NEMA 4X, RED LED PUSH-TO-TEST TYPE. SCHNEIDER ELECTRIC HARMONY XB4BW24G5 OR EQUAL. PROVIDE ENGRAVED LABEL.
3-POSITION SWITCH:	CENTER OFF TYPE, NEMA 4X, GENERAL DUTY. PROVIDE ENGRAVED LABEL. SCHNEIDER ELECTRIC XB4BD33 OR EQUAL.



2 E401 LIGHTING PANEL CONTROL DETAIL

NO SCALE

THREE PHASE PANEL SCHEDULE

EXISTING PANEL A

SQUARE D NQOD

TYPE: PANEL BOARD
VOLTAGE 120 / 208 - 3P4W
MOUNT: SURFACE/NEMA 1

BUS CONSTRUCTION: CU
GROUND BUS: YES
ISOLATED GROUND BUS: YES

BUS AMPACITY: 225A
MAIN CIRCUIT BREAKER: 225A
MAINS TYPE: MLO
MCB RATING: 225 AMPS

	DESCRIPTION	LOAD	BKR	A	B	C	BKR	LOAD	DESCRIPTION	
1	*PARKING LOT LIGHTS*	-	*30/2*		***	***	*20/1*	-	*RCAS DED RM ISO*	2
3		-		***		***	*20/1*	-	*RCAS DED RM 3.4*	4
5	***LIGHTING CONTROL PANEL***	3.00	***20/1***	***	***		*20/1*	-	*RCAS DED RM 15*	6
7	*SPARE*	-	*20/1*		***	***	*20/1*	-	*DRILL HALL RECEPTACLE*	8
9	**PARKING LOT LIGHTS (EAST)**	5.00	**30/2**	***		***	*20/1*	-	*DRILL HALL RECEPTACLE*	10
11		5.00		***	***		*20/1*	-	*BOILER BURNER SWITCH*	12
13	*SPARE*	-	*30/3*		***	***	*60/2*	-	*AIR CONDITIONER SUB-PANEL*	14
15		-		***		***		-		16
17		-		***	***		*20/1*	-	*SECURITY PANELS*	18
19	*ASSEMBLY HALL UNIT VENT*	-	*15/3*		***	***	*20/1*	-	*SECURITY OUTLET*	20
21		-		***		***		-	*CONDENSATION PUMP*	22
23		-		***	***		*30/2*	-		24
25	*HEAT TRANSFER FAN*	-	*15/1*		***	***	*30/1*	-	*LIFT STATION BY ROAD*	26
27	*GARBAGE DISPOSAL*	-	*15/1*	***		***	*20/1*	-	*RAINWATER*	28
29	*WIRE GOES TO L-2*	-	*15/1*	***	***		*15/1*	-	*ALARM*	30

TOTAL AMPS / PHASE: #VALUE! #VALUE! #VALUE!

KVA / PHASE: _____ TOTAL CONNECTED KVA:

PANEL SCHEDULE NOTES:

A. BOLD TEXT INDICATES NEW CIRCUIT AND BREAKER.
B. BOLD ITALIC TEXT INDICATES NEW CIRCUIT AND EXISTING BREAKER.
C. NON-BOLD ITALIC TEXT INDICATES EXISTING CIRCUIT AND BREAKER.

3 E401 PANEL SCHEDULE - EXISTING PANEL A

NO SCALE

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Sheet Title: ELECTRICAL ONE LINE DIAGRAM

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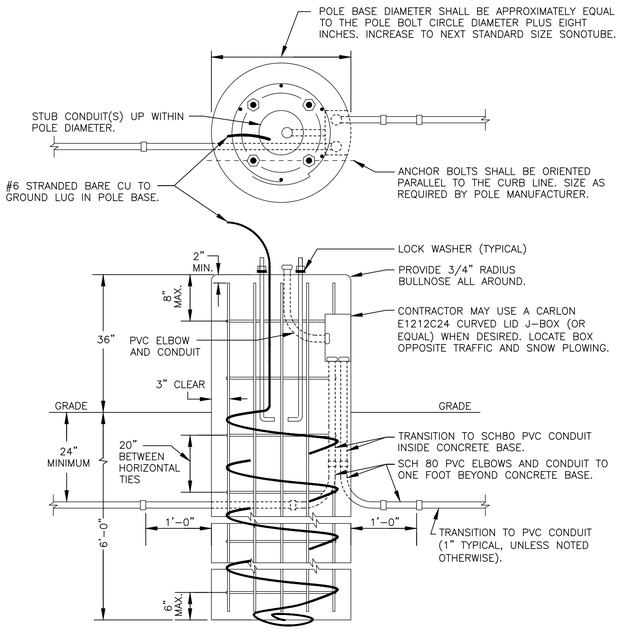
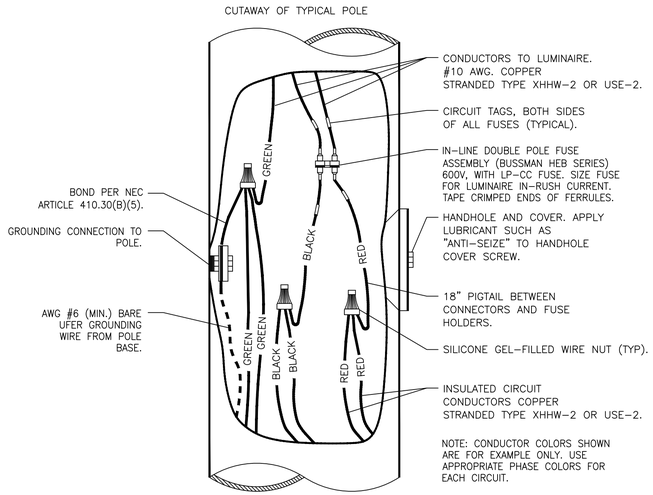


CONCRETE AND HARDWARE NOTES:
1. USE ANCHOR BOLTS FURNISHED BY POLE MANUFACTURER. VERIFY BOLT CIRCLE DIAMETER WITH MANUFACTURER.
2. APPLY "ANTI-SEIZE" LUBRICANT TO ALL ANCHOR BOLT THREADS.
3. USE #4 REBAR (TYPICAL).
4. THE EXPOSED SIDES OF THE CONCRETE BASE SHALL HAVE THE FORMS REMOVED AND THE CONCRETE RUBBED OUT TO A SMOOTH FINISH.
5. THE TOP OF THE CONCRETE BASE SHALL HAVE A BRUSH FINISH.
6. PROVIDE 3/4" RADIUS BULLNOSE ON TOP EDGE OF CONCRETE.

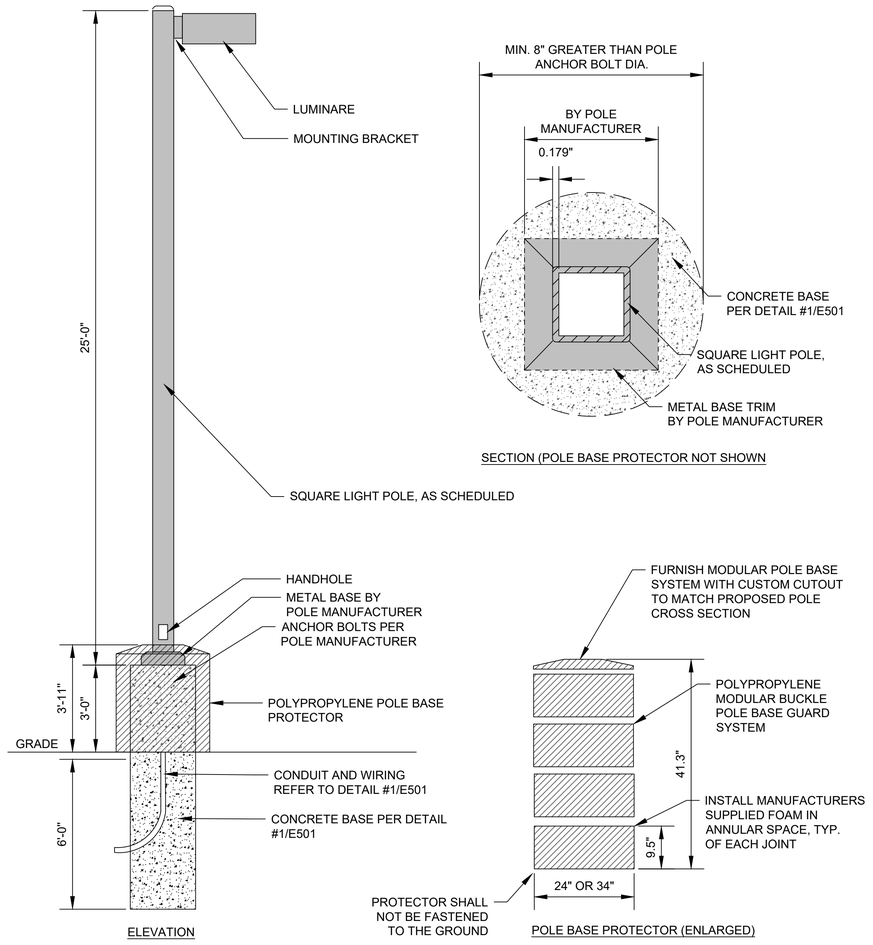
CONDUIT AND BOX NOTES:
1. AT CONTRACTOR'S OPTION, CONTRACTOR MAY USE A CURVED LID J-BOX RECESSED IN THE POLE BASE FOR ROUTING MULTIPLE CONDUITS TO/FROM A POLE. OTHERWISE CONDUITS SHALL BE STUBBED OUT THE TOP OF THE CONCRETE BASE WITHIN THE POLE DIAMETER.
2. WHEN USED, JUNCTION BOX SHALL FACE OPPOSITE TRAFFIC AND SNOW PLOWING.
3. PROVIDE A SPARE CONDUIT STUB AT EACH END-OF-LINE FIXTURE. SEE PLANS FOR ADDITIONAL SPARE STUBS.
4. PROVIDE A BUSHING ON ALL EXPOSED CONDUIT ENDS.

CONCRETE ENCASED (UFER) GROUNDING SYSTEM NOTES:
1. PROVIDE ERICO EK16 DIRECT BURY CLAMP (OR EQUAL) AT TOP OF REBAR CAGE.
2. PROVIDE 23' OF #4 BARE COPPER STRANDED GROUNDING ELECTRODE CONDUCTOR.
3. EXTEND 3' OF CONDUCTOR OUT THE TOP OF POLE BASE FOR POLE GROUNDING.
4. SPIRAL 10' MINIMUM OF CONDUCTOR AROUND OUTSIDE OF REBAR CAGE.
5. LOOP REMAINING CONDUCTOR AROUND REBAR CAGE AT BOTTOM OF POLE BASE IN CONTACT WITH EARTH.

1 E501 — CONCRETE BASE DETAIL
NO SCALE



3 E501 — POLE CUTAWAY (208 VOLTS, 1 PHASE)
N.T.S



6 E501 — LIGHT POLE DETAIL
NO SCALE

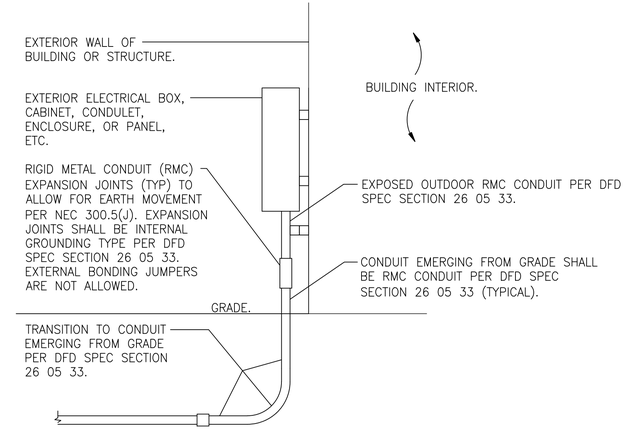
4 E501 — WALL-MOUNTED PANEL/ENCLOSURE/BOX
NO SCALE

NOTES:
1. ADJUST TRENCH DEPTH AND WIDTH TO ACCOMMODATE CONDUITS SCHEDULED.
2. COORDINATE ROUTING TO AVOID CONFLICTS WITH EXISTING BURIED PIPES AND CONDUITS.
3. REFER TO SECTION 26 05 33.

2 E501 — DIRECT BURIED UNDERGROUND CONDUIT
NO SCALE

DETAIL NOTES:
1. REAM AND THREAD ALL CONDUIT ENDS AT PULL BOX. INSTALL BUSHINGS OR END BELLS ON METALLIC/NON-METALLIC CONDUITS RESPECTIVELY PRIOR TO PULLING IN NEW WIRE. SEAL CONDUITS WITH DUCT-SEAL OR EQUAL.
2. DO NOT MAKE SPLICES WITHOUT ENGINEER APPROVAL. SPLICE KITS WHEN ALLOWED SHALL BE INSULATING, MOISTURE-SEALING ELECTRICAL SPLICE-KITS SUITABLE FOR USE WITH CABLE AND WIRE TYPES INSTALLED, "SCOTCH-CAST" OR EQUAL.

5 E501 — EXTERIOR HANDHOLE INSTALLATION
NO SCALE



7 E501 — CONDUIT EMERGING FROM GRADE W/ EXPANSION JOINT
NO SCALE

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Sheet Title: ELECTRICAL DETAILS

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