PAM TRANSPORT
PARKING LOT ADDITION
297 W. HENRI DE TONTI BLVD.
TONTITOWN, ARKANSAS

CONSTRUCTION NOTES

1. CONTRACTOR SHALL RETAIN A FULL SET OF THE LATEST APPROVED CONSTRUCTION PLANS ON SITE DURING CONSTRUCTION ACTIVITIES.

2. COORDINATE START–UP AND ALL CONSTRUCTION ACTIVITIES WITH THE DEVELOPER'S RESIDENT REPRESENTATIVE.

3. CONSTRUCTION METHODS AND MATERIALS NOT SPECIFIED IN THESE PLANS ARE TO MEET OR EXCEED THE SITEWORK SPECIFICATIONS PROVIDED BY EXPEDIENT CIVIL ENGINEERING, PLLC OR AS SPECIFIED BY THE DEVELOPER'S RESIDENT REPRESENTATIVE.

4. ALL CONSTRUCTION WORK AND UTILITY WORK OUTSIDE OF PROPERTY BOUNDARIES SHALL BE PERFORMED IN COOPERATION WITH AND IN ACCORDANCE WITH REGULATIONS OF THE AUTHORITIES CONCERNED.

5. PUBLIC CONVENIENCE AND SAFETY:

   THE CONTRACTOR SHALL CONDUCT THE WORK IN A MANNER THAT WILL ENSURE, AS FAR AS PRACTICABLE, THE LEAST OBSTRUCTION TO TRAFFIC AND SHALL PROVIDE FOR THE CONVENIENCE AND SAFETY OF THE GENERAL PUBLIC AND RESIDENTS ALONG AND ADJACENT TO HIGHWAYS IN THE CONSTRUCTION AREA IN AN ADEQUATE AND SATISFACTORY MANNER IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTC) FOR STREETS AND HIGHWAYS AND THE ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.

6. GRADING NOTES:

   A. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES EXCEPT THAT NO TOPSOIL WILL BE WASTED WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PAVED AREA. BURNING OF TIMBER AND DEBRIS WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING OFFICIALS.

   B. AREAS TO RECEIVE FILL SHALL BE SCARIFIED AND THE TOP 8–INCH DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENISTY PER ASTM D1557. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.

   C. OFF–SITE FILL MATERIAL(SANDY CLAY, CLAYEY SAND, GRAVELLY CLAY, OR CLAYEY GRAVEL), SHALL HAVE A PLASTICITY INDEX OF 15 OR LESS, A LIQUID LIMIT OF 40 OR LESS, A CBR VALUE GREATER THAN 8, AND CONTAIN NO ROCK LARGER THAN 4 INCHES. OFF–SITE FILL MATERIAL SHALL BE APPROVED BY THE DEVELOPER'S REPRESENTATIVE PRIOR TO BRINGING ON SITE.

   D. AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A FULLY LOADED TANDEM–AXLE DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOILS. CUT AREAS ARE TO BE SCARIFIED AND RECOMPACTED TO 95% MAXIMUM DRY DENSITY PER ASTM D698 AND TESTED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF BASE MATERIAL.

   E. IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOILS ARE ENCOUNTERED, A QUALIFIED GEOTECHNICAL ENGINEER SHALL RECOMMEND TO THE DEVELOPER'S CONSTRUCTION DIVISION ON THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED, APPROVED FILL MATERIAL. ALL PROOF ROLLING AND UNDERCUTTING SHALL BE PERFORMED DURING A SUFFICIENT DURATION OF DRY WEATHER PERIOD.

   F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

   G. AN INDEPENDENT TESTING LABORATORY, SELECTED AND PAID BY THE CONTRACTOR, APPROVED BY THE DEVELOPER, SHALL BE RETAINED TO PERFORM CONSTRUCTION TESTING OF THE SUBGRADE FOR COMPLIANCE WITH THE MINIMUM REQUIREMENTS OF SUBGRADE COMPACTION. FOR BASE COURSE AND ASPHALT PAVING.

   H. ALL SLOPES ARE TO BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED. SLOPES STEEPER THAN 3:1, BUT FLATTER THAN 2:1 SHALL BE STABILIZED BY AN APPROVED VEGETATIVE LAYER OR OTHER APPROVED METHODS.

   I. ALL SLOPES EXCEEDING 2:1 SHALL BE PROTECTED BY RIP–RAP, CONCRETE PAVING, OR OTHER METHODS INDICATED ON THESE PLANS THAT WILL PREVENT EROSION, AND PLACED SUCH THAT THE SURFACE IS FLUSH WITH SURROUNDING GROUND AND SHAPED TO CHANNEL WATER IN DIRECTIONS INDICATED.

   J. CONTRACTOR SHALL REFER TO THE STORMWATER POLLUTION PREVENTION PLAN AND REPORT FOR STORMWATER QUALITY CONTROL INCLUDING EROSION AND SEDIMENT CONTROL. PROPER MEASURES SHALL BE PRACTICED TO PREVENT EROSION ALONG THE EDGE OF PROPERTY, TOE OF SLOPE, AND ALONG DITCHES. MUD AND DEBRIS ARE NOT ALLOWED TO FLOW ONTO ADJACENT PROPERTIES.

   K. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS.

7. PAVING NOTES:

   A. ASPHALT CONCRETE SURFACE SHALL BE TYPE 2 PER SECTION 407 AND BASE COURSE MATERIALS SHOULD MEET OR EXCEED THE REQUIREMENTS SPECIFIED IN THE ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.

   B. AN INDEPENDENT TESTING LABORATORY, SELECTED AND PAID BY THE CONTRACTOR, APPROVED BY THE DEVELOPER, SHALL BE RETAINED TO PERFORM CONSTRUCTION TESTING OF IN–PLACE ASPHALT CONCRETE COURSES FOR COMPLIANCE WITH REQUIREMENTS FOR THICKNESS AND SURFACE SMOOTHNESS REQUIREMENTS AS SPECIFIED IN THE CONSTRUCTION SPECIFICATIONS.

8. CONCRETE NOTES:

   A. CONCRETE PAVING AND STRUCTURES SHOULD CONFORM TO THE ARKANSAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.

   B. AN INDEPENDENT TESTING LABORATORY, SELECTED AND PAID BY THE CONTRACTOR, APPROVED BY THE DEVELOPER, SHALL BE RETAINED TO PERFORM CONSTRUCTION TESTING OF CONCRETE FOR COMPLIANCE WITH CONCRETE STRENGTH REQUIREMENTS AS SPECIFIED IN THE CONSTRUCTION SPECIFICATIONS.

   C. VERTICAL CONCRETE SURFACES EXPOSED TO THE GENERAL PUBLIC SHALL BE WET–RUBBED TO A SMOOTH FINISH AFTER FORMS HAVE BEEN REMOVED. HORIZONTAL SURFACES SHALL BE BROOMED AS REQUIRED IN THE CONSTRUCTION PROJECT SPECIFICATIONS.

   D. CONTRACTOR IS TO PROVIDE WEAKENED–PLANE (CONSTRUCTION) JOINTS, SECTIONING CONCRETE INTO AREAS AT 10–FOOT ON CENTERS, MAXIMUM EACH WAY. CONSTRUCT WEAKENED–PLANE JOINTS FOR A DEPTH EQUAL TO AT LEAST 1/4" CONCRETE THICKNESS. CONTRACTOR IS TO FURNISH JOINT FILLERS APPROVED BY THE DEVELOPER'S CONSTRUCTION DIVISION OR AS DETAILED ON PLANS.

9. UTILITY NOTES:

   A. CONSTRUCTION SHALL NOT START ON ANY PUBLIC UTILITY SYSTEM UNTIL WRITTEN APPROVAL HAS BEEN RECEIVED FROM TONTITOWN WATER UTILITIES (TWU), AND THE CONTRACTOR HAS BEEN NOTIFIED BY EXPEDIENT CIVIL ENGINEERING, PLLC.

   B. CONTRACTOR SHALL NOT OPEN, TURN OFF, INTERFERE WITH, OR ATTACH ANY PIPE OR HOSE TO OR TAP ANY WATER MAIN BELONGING TO TWU UNLESS DULY AUTHORIZED TO DO SO BY THE CITYS. ANY ADVERSE CONSEQUENCES OF ANY SCHEDULED OR UNSCHEDULED DISRUPTIONS OF SERVICE TO THE PUBLIC ARE TO BE THE LIABILITY OF THE CONTRACTOR. EXPEDIENT CIVIL ENGINEERING, PLLC AND THE DEVELOPER ARE TO BE HELD HARMLESS.

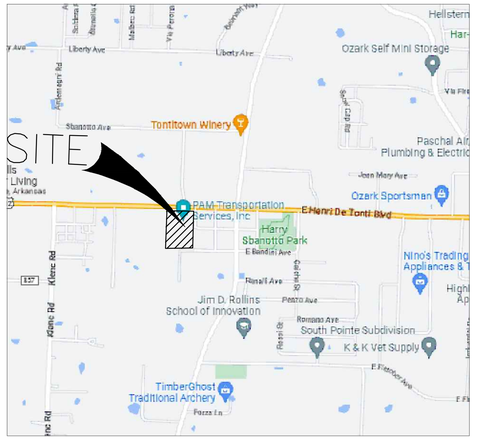
   C. DISINFECTION AND PRESSURE TESTING OF WATER LINES SHALL BE PERFORMED AND PAID FOR BY THE CONTRACTOR UNDER SUPERVISION OF A REPRESENTATIVE OF TWU AND A REPRESENTATIVE OF EXPEDIENT CIVIL ENGINEERING, PLLC. CONTRACTOR SHALL NOTIFY EXPEDIENT CIVIL ENGINEERING, PLLC AT LEAST ONE WEEK IN ADVANCE, PRIOR TO ANY TESTING.

   D. ALL WATER AND SEWER MAINS THAT ARE TO BE PUBLIC LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST TWU STANDARD SPECIFICATIONS AND THE ARKANSAS STATE HEALTH DEPARTMENT STANDARD SPECIFICATIONS, AND SHALL BE INSPECTED BY THE UTILITY INSPECTOR & EXPEDIENT CIVIL ENGINEERING, PLLC.

10. BLASTING AND EXPLOSIVE MATERIALS:

   A. THE CONTRACTOR IS SUBJECT TO ALL FEDERAL, STATE AND LOCAL REGULATIONS GOVERNING THE USE AND STORAGE OF EXPLOSIVE MATERIALS AND IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS AND LICENSES.

   B. EXPEDIENT CIVIL ENGINEERING, PLLC ACCEPTS NO RESPONSIBILITY OR LIABILITY PERTAINING TO STORAGE, USE, METHODS, PROCEDURES, SAFETY PRECAUTIONS, TECHNICAL SPECIFICATIONS, CONCERNING BLASTING AND EXPLOSIVE MATERIALS. THE CONTRACTOR SHALL HOLD THE OWNER, ENGINEER, AND THEIR ASSOCIATES HARMLESS WITH REGARD TO BLASTING AND EXPLOSIVE MATERIALS.



VICINITY MAP
NOT TO SCALE

north

RESOURCE LIST

NAME	ADDRESS	TELEPHONE
DEVELOPER SSI, INC	400 JEAN MARY AVE SPRINGDALE, AR 72762	(479) 414–5567
BLACK HILLS ENERGY MR. JOSH KNIGHT JOSHUA.KNIGHT@BLACKHILLSCORP.COM	1301 FEDERAL WAY PO BOX 2129 LOWELL, ARKANSAS 72745	(479) 333–7005
AT&T MR. LAYNE RHODES	1133 E. HAROLD ST FAYETTEVILLE, ARKANSAS 72703	(479) 571–6609
TONTITOWN PLANNING BR. BRAD SPURLOCK	PO BOX 305 TONTITOWN, AR 72770	(479) 435–8080
COX COMMUNICATIONS MR. CHAD HODGE & TIMOTHY GOSS	4901 S. 48TH STREET SPRINGDALE, ARKANSAS 72762	CHAD:(479) 263–7075 CHAD.HODGE@COX.COM TIM:(479) 651–5583 TIMOTH-Y.GOSS@COX.COM
OZARKS ELECTRIC COOPERATIVE	3641 WEDINGTON DRIVE FAYETTEVILLE, AR 72704	(479) 521–2900
TONTITOWN WATER UTILITIES	201 E HENRI DE TONTI BLVD TONTITOWN, AR 72762	(479) 361–2996
UTILITY LOCATIONS ARKANSAS ONE–CALL SYSTEM, INC.		1–800–482–8998

SHEET INDEX

No.	DESCRIPTION	PLOT DATE No.	PLOT DATE DATE
C1.0	COVER SHEET	0	3/14/2023
C2.0	DEMOLITION AND STORMWATER POLLUTION PREVENTION PLAN	0	3/14/2023
C3.0	OVERALL SITE PLAN	0	3/14/2023
C3.1	SITE PLAN	0	3/14/2023
C4.0	GRADING PLAN	0	3/14/2023
C5.0	DETAILS	0	3/14/2023
C5.1	DETAILS	0	3/14/2023
L1.0	LANDSCAPE PLAN	0	3/14/2023
L1.1	LANDSCAPE PLAN	0	3/14/2023
E–1	LIGHTING PLAN	0	3/3/2023
E–2	LIGHTING CUT SHEET	0	3/3/2023

NOTES:
- REVIEW OF THESE PLANS IS LIMITED TO COMPLIANCE WITH CITY CODES AND REGULATIONS. BY REVIEWING AND APPROVING THESE PLANS THE REVIEWER AND THE CITY OF TONTITOWN ASSUME NO RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS IN THE PLANS. THE ADEQUACY OF THE PLANS IS THE SOLE RESPONSIBILITY OF THE DESIGN ENGINEER. THE CITY OF TONTITOWN, HOWEVER, RESERVES THE RIGHT TO REQUIRE CORRECTIVE ACTION IF ANY INADEQUACIES ARE FOUND AFTER THE IMPROVEMENTS ARE CONSTRUCTED.

CERTIFICATE OF AUTHORIZATION ECE No. 3356 ARKANSAS ENGINEER

811 Know what's below. Call before you dig.

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER Jason E. Ingalls No.11411
3/14/2023

Rev	Comments	Date

NOT FOR CONSTRUCTION

PAM TRANSPORT PARKING LOT
297 W HENRI DE TONTI BLVD SPRINGDALE, AR 72762

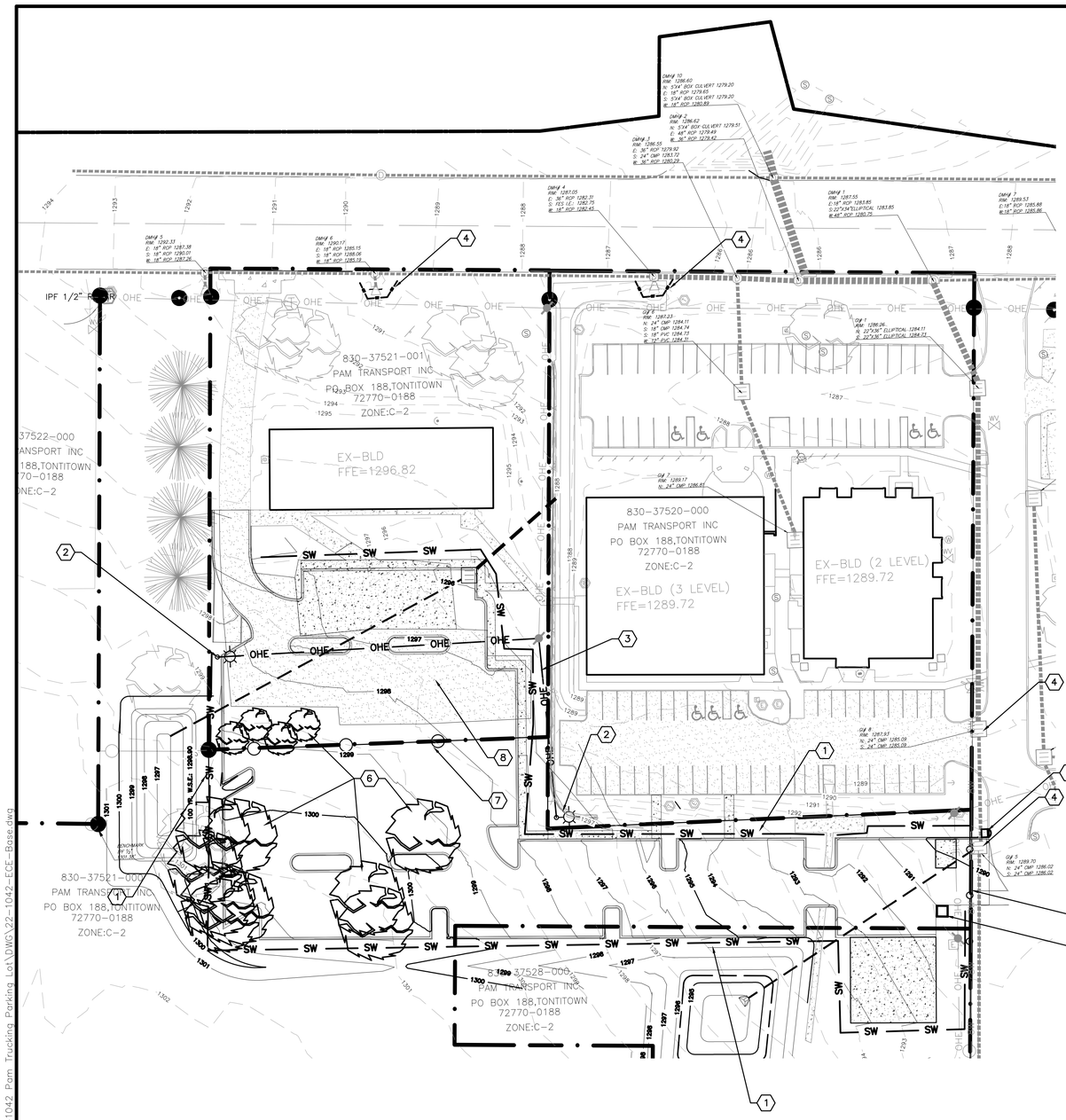
SSI, INC
400 JEAN MARY AVE SPRINGDALE, AR 72762

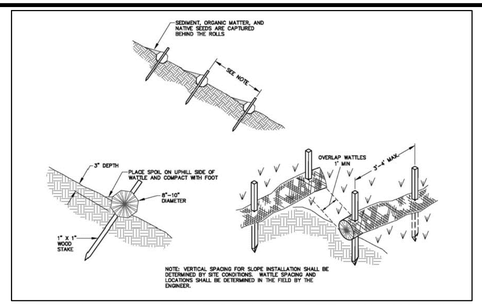
9208 SUITS US DR, STE B
BELLA VISTA, AR 72714
O: (479) 364-0028
D: (479) 367-2924
M: (509) 759-5300
EMAIL: jason@ece-pllc.com

Expedient Civil Engineering, PLLC

DRAWN BY: KAB
CHECKED BY: JEI
DATE 10/1/2020
JOB NUMBER 22-1042
SHEET NAME COVER SHEET
File No. 22-1042-ECE-Base.dwg
C1.0

Z:\ECE-Work\Projects\2022 Projects\22-1042 Pam Trucking Parking Lot\DWG\22-1042-ECE-Base.dwg





DETAIL 1 – TEMPORARY STRAW WATTLE

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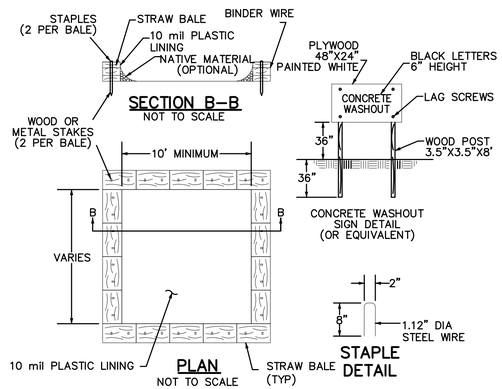

TYPE "ABOVE GRADE" WITH STRAW BALES

DETAIL 2 – CONCRETE WASHOUT

NOT TO SCALE

CERTIFICATE OF AUTHORIZATION
ECE
No. 3356
ARKANSAS ENGINEER

NORTH

40' 0 40'

SCALE 1"=40'

LEGEND

- FOUND IRON PIN
- PROPERTY LINE
- EXISTING RIGHT–OF–WAY
- EXISTING ASPHALT
- EXISTING EDGE OF PAVEMENT
- EXISTING CENTERLINE OF ROAD
- PROPOSED CURB
- EXISTING 8" WATER — 8W —
- PROPOSED STORM PIPE
- PROPOSED STORM STRUCTURE
- TEMPORARY STRAW WATTLE — SW —
- REMOVED OVERHEAD ELECTRIC — OHE —
- TREE TO BE REMOVED
- ASPHALT TO BE REMOVED
- SWPPP MAILBOX

EROSION AND SEDIMENT CONTROL NOTES:

1. INSTALL EROSION AND SEDIMENT CONTROL MEASURES AND CONSTRUCTION ENTRANCES AT LOCATIONS AS INDICATED ON PLANS PRIOR TO EARTHWORK.
2. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE LOCATED AND MAINTAINED SUCH THAT THE LOCATION DOES NOT INTERFERE WITH CONSTRUCTION ACTIVITIES.
3. REFER TO THE CONSTRUCTION STORMWATER POLLUTION PREVENTION PLAN (SWPPP) REPORT FOR IMPLEMENTATION, INSTALLATION, AND/OR APPLICATION REQUIREMENTS AND SEQUENCES.
4. CONSTRUCT DETENTION POND AND TEMPORARY OVERFLOW STRUCTURE.
5. CURB INLET SEDIMENT CONTROL SHALL BE PLACED AND MAINTAINED AT EACH INLET.
6. INSTRUCTION/DIRECTION OF THE INSPECTOR SHALL PREVAIL OVER THE CONSTRUCTION SWPPP PLAN.

MAINTENANCE AND OPERATION NOTES:

1. AN INSPECTION SHALL BE MADE BY DEVELOPER OR ASSIGNED REPRESENTATIVE (INSPECTOR) WITHIN 24 HOURS OF A RAINFALL EVENT PER ADEQ REQUIREMENTS. ALL OBSERVED DEFICIENCIES IN BEST MANAGEMENT PRACTICES (BMP'S) WILL BE RECORDED.
2. SEDIMENT SHALL BE REMOVED BEHIND SILT FENCING STRAW BALES ONCE SEDIMENT REACHES 1/3 THE HEIGHT OF THE SILT FENCE OR STRAW BALE.

KEYNOTES:

1. PROPOSED TEMPORARY STRAW WATTLES. SEE DETAIL **1/C2.0**
2. TEMPORARY CONCRETE WASHOUT PER DETAIL **2/C2.0**
3. VACATE OVERHEAD ELECTRIC AND REPLACE WITH UNDERGROUND ELECTRIC.
4. INSTALL CURB INLET EROSION PROTECTION DURING CONSTRUCTION.
5. SWPPP TO BE LOCATED IN MAILBOX ON SITE.
6. TREES TO BE REMOVED.
7. REMOVE FENCE AND DISPOSE OF OFF–SITE.
8. REMOVE ASPHALT AND DISPOSE OF OFF–SITE.
9. REMOVE LIGHT POLE AND DISPOSE OF OFF–SITE.

811 Know what's below. Call before you dig.

NOT FOR CONSTRUCTION

STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No.11411
Jason E. Ingalls
3/14/2023

Rev	Comments	Date

PAM TRANSPORT PARKING LOT

297 W HENRI DE TONTI BLVD SPRINGDALE, AR 72762

SSI, INC

400 JEAN MARY AVENUE SPRINGDALE, AR 72762

9200 SUITS LIS DR, STE B
BELLA VISTA, AR 72714
O: (479) 364-0028
D: (479) 367-2924
M: (509) 759-5300
EMAIL: jason@ece-pllc.com

Expedient Civil Engineering, PLLC

DRAWN BY: KAB

CHECKED BY: JEI

DATE 10/1/2020

JOB NUMBER 22-1042

SHEET NAME
DEMOLITION AND STORMWATER POLLUTION PREVENTION PLAN

File No. 22-1042-ECE-Base.dwg

C2.0

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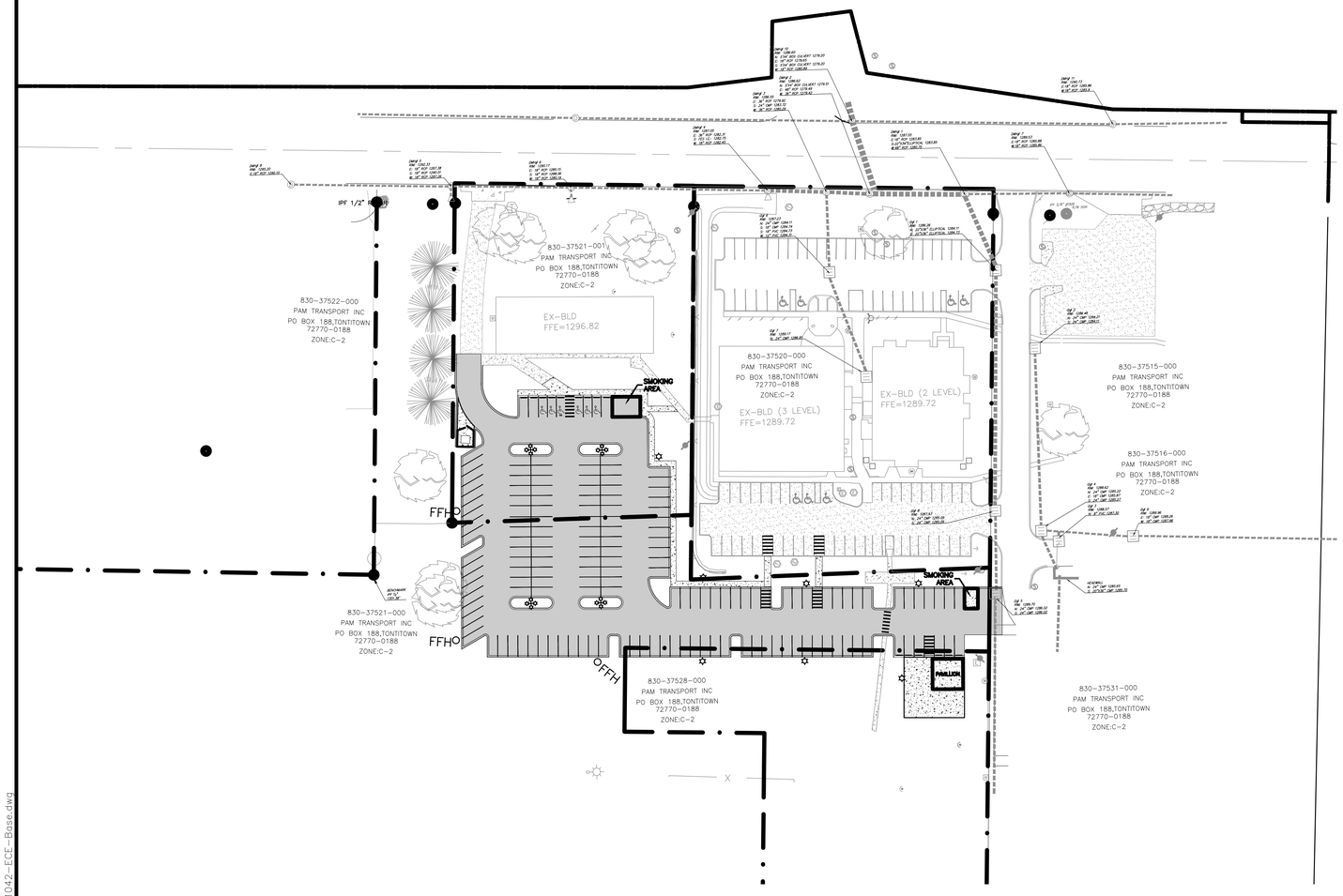

NORTH

60' 0 60'

SCALE 1"=60'

LEGEND

- FOUND IRON PIN
- PROPERTY LINE
- PROPOSED RIGHT-OF-WAY
- EXISTING ASPHALT
- EXISTING EDGE OF PAVEMENT
- EXISTING CENTERLINE OF ROAD
- EXISTING LIGHT
- EXISTING ELECTRIC BOX
- EXISTING TELEPHONE BOX
- EXISTING CONCRETE
- PROPOSED CURB
- PROPOSED SIDEWALK
- PROPOSED ASPHALT
- PROPOSED STREETLIGHT

DEVELOPER:

SSI, INC.
400 JEAN MARY AVE
SPRINGDALE, AR 72762

ENGINEER:

EXPEDIENT CIVIL ENGINEERING, PLLC
9200 SUITS US DR, STE. B
BELLA VISTA, AR 72714
(479) 364-0028

ZONING:

C-2

TOTAL SITE ACREAGE:

4.26 ACRES / 185,566 SF

TOTAL PARKING SPACES:

STANDARD PARKING SPACES:	149 SPACES
ADA PARKING SPACES:	6 SPACES
TOTAL PARKING SPACES:	159 SPACES

GENERAL NOTES:

THE OWNER/DEVELOPER SHALL BE RESPPONSIBLE FOR THE COST OF ANY REQUIRED ADJUSTMENTS TO THE EXISTING WATER AND SEWER FACILITIES DUE TO SITE GRADING, PAVING, LOT LINE ADJUSTMENTS, OR OTHER MATTERS.

STOCKPILING OF CONSTRUCTION SPOIL MATERIAL AT PARTICULAR LOCATIONS SHALL ONLY BE ALLOWED FOR A LIMITED TIME PERIOD, NOT TO EXCEED (6) MONTHS.
PRIOR TO A FINAL INSPECTION OF THE GRADING PERMIT, THE FOLLOWING STANDARDS SHALL BE ACHIEVED FOR COMPLETION OF CONSTRUCTION:

A) DEVELOPMENT AND GRADING WITHIN THE DISTURBED AREA IS COMLETE AND MATCHES PLANS AS APPROVED BY THE PLANNING COMMISSION, AND
B) THE DISTURBED SOIL AREA IS OBSERVED TO HAVE 80% GRASS COVERAGE AND 100% STABILITY, AND
C) NO SLOPES STEEPER THAN 3:1 PITCH UNLESS OTHERWISE APPORVED IN WRITING BY THE DIRECTOR OF ENGINEERING, AND
D) NOTICE OF VIOLATIONS ISSUED HAVE ALL CORRECTIVE ACTIONS APPROVED WITH AN INSPECTION REPORT SIGNED BY A REPRESENTATIVE OF THE DIRECTOR OF ENGINEERING, AND
E) ALL HEAVY EQUIPMENT, STOCKPILES, AND CONSTRUCTION SITE MATERIALS HAVE ALL BEEN REMOVED FROM THE CONSTRUCTION SITE.

FLOOD STATEMENT:

THE PROPERTY SHOWN HEREON LIES WITHIN FLOOD ZONE "X" AS SHOWN ON FEMA FLOOD INSURANCE RATE MAP NUMBER 05143C0065F WITH AN EFFECTIVE DATE OF MAY 16, 2008. AREAS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN.

CERTIFICATE OF AUTHORIZATION
ECE
No. 3356
ARKANSAS ENGINEER

811
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REGISTERED PROFESSIONAL ENGINEER
Jason E. Ingalls
No. 11411
3/14/2023

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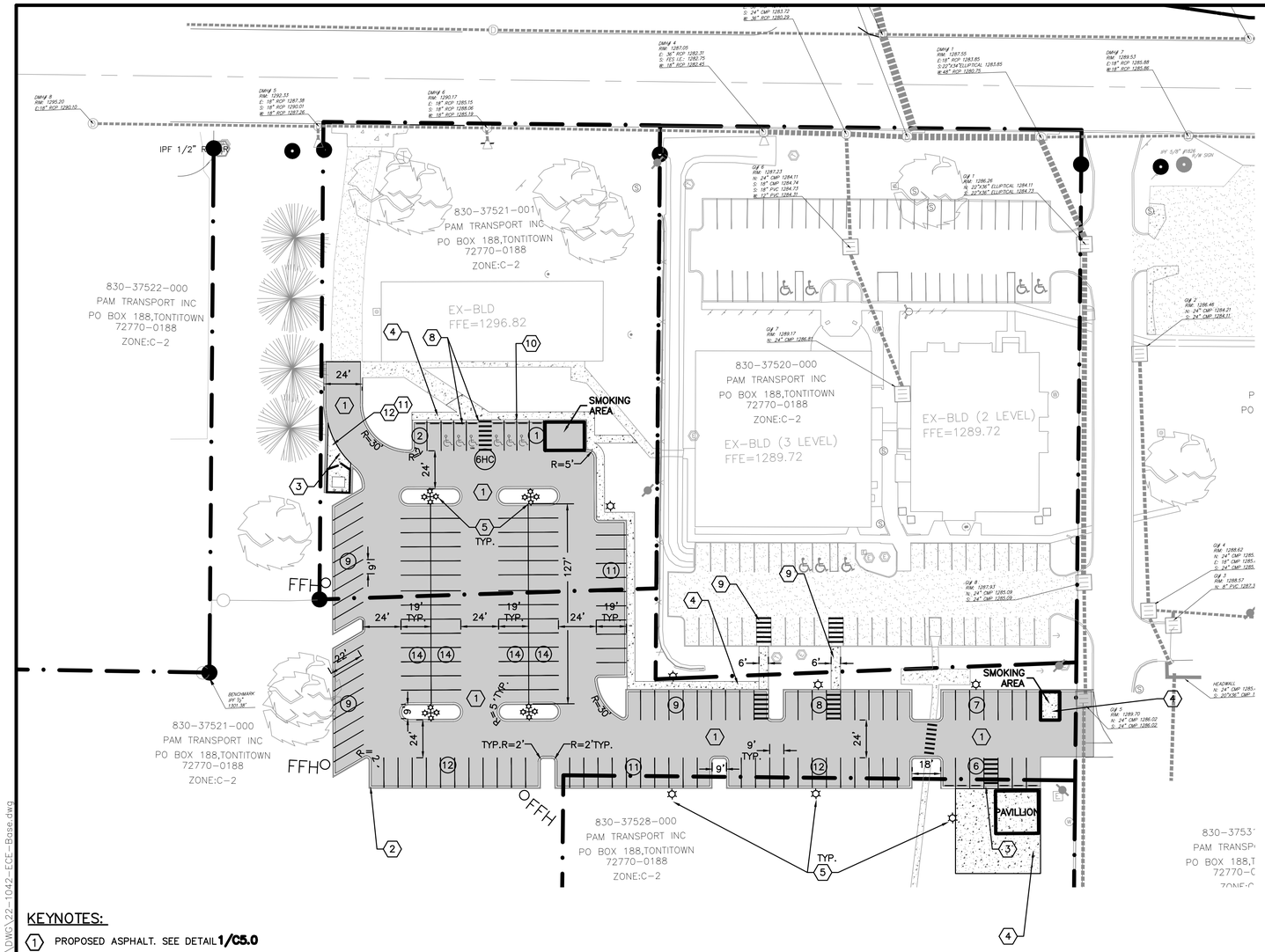
Z:\ECE-Work Projects\2022 Projects\22-1042 Pam Trucking Parking Lot\DWG\22-1042-ECE-Base.dwg



KEYNOTES:

1. PROPOSED ASPHALT. SEE DETAIL **1/C5.0**
2. PROPOSED CURB AND GUTTER. SEE DETAIL **2/C5.0**
3. PROPOSED ROLLOVER CURB. SEE DETAIL **3/C5.0**
4. PROPOSED SIDEWALK. SEE DETAIL **4/C5.0**
5. PROPOSED PARKING LOT LIGHTING. SEE SHEET **E-1 & E-2**
6. PROPOSED SIDEWALK AND CONCRETE. SEE DETAIL **5/C5.0**
7. WHEEL STOP. SEE DETAIL **6/C5.0**
8. ADA ACCESSIBLE PARKING. SEE DETAILS **7 & 8/C5.0**
9. HANDRAIL FOR SIDEWALK. SEE DETAIL **9 & 10/C5.0**
10. MATCH GRADE OF ASPHALT TO SIDEWALK.
11. PROPOSED TRASH ENCLOSURE.
12. HEAVY DUTY CONCRETE. SEE DETAIL **9/C5.0**

NORTH

40' 0 40'

SCALE 1"=40'

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- PROPERTY LINE
- PROPOSED RIGHT-OF-WAY
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- EXISTING EDGE OF PAVEMENT
- EXISTING CENTERLINE OF ROAD
- EXISTING LIGHT
- EXISTING ELECTRIC BOX
- EXISTING TELEPHONE BOX
- EXISTING CONCRETE
- PROPOSED CURB
- PROPOSED SIDEWALK
- PROPOSED ASPHALT
- PROPOSED STREETLIGHT

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ENGINEER:

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E) ALL HEAVY EQUIPMENT, STOCKPILES, AND CONSTRUCTION SITE MATERIALS HAVE ALL BEEN REMOVED FROM THE CONSTRUCTION SITE.

FLOOD STATEMENT:

THE PROPERTY SHOWN HEREON LIES WITHIN FLOOD ZONE "X" AS SHOWN ON FEMA FLOOD INSURANCE RATE MAP NUMBER 05143C0065F WITH AN EFFECTIVE DATE OF MAY 16, 2008. AREAS DETERMINED TO BE OUTSIDE THE 500 YEAR FLOOD PLAIN.

CERTIFICATE OF AUTHORIZATION ECE No. 3356 ARKANSAS ENGINEER

811 Know what's below. Call before you dig.

NOT FOR CONSTRUCTION

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER Jason E. Ingalls No.11411
3/14/2023

Rev	Comments	Date

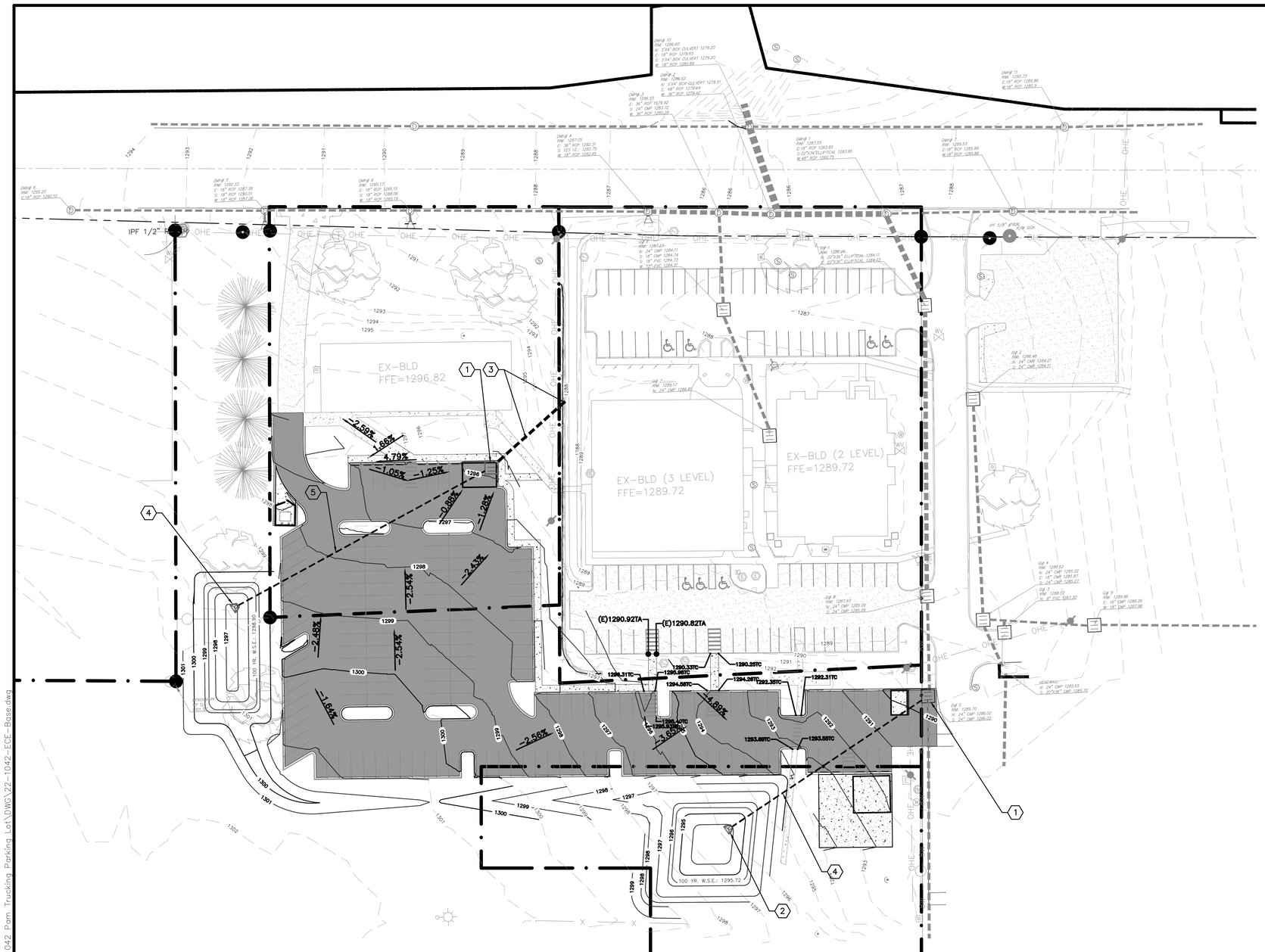
PAM TRANSPORT PARKING LOT
297 W HENRI DE TONTI BLVD SPRINGDALE, AR 72762
SSI, INC
400 JEAN MARY AVE SPRINGDALE, AR 72762

9200 SUITS US DR, STE. B
BELLA VISTA, AR 72714
O: (479) 364-0028
D: (479) 367-2924
M: (509) 759-5300
EMAIL: jason@ece-pllc.com

Expedient Civil Engineering, PLLC

DRAWN BY: KAB
CHECKED BY: JEI
DATE 10/1/2020
JOB NUMBER 22-1042
SHEET NAME SITE PLAN
File No. 22-1042-ECE-Base.dwg
C3.1

Z:\ECE- Work\Projects\2022 Projects\22-1042 Pam Trucking Parking Lot\DWG\22-1042-ECE- Base.dwg



NORTH

40' 0 40'

SCALE 1"=40'

LEGEND

FOUND IRON PIN	
PROPERTY LINE	
EXISTING ASPHALT	
EXISTING EDGE OF PAVEMENT	
EXISTING CENTERLINE OF ROAD	
EXISTING 2" WATER MAIN	2W 2W
PROPOSED CURB	
PROPOSED 5' SIDEWALK	
PROPOSED STANDARD ASPHALT	
PROPOSED SETBACK	
PROPOSED EASEMENT	
PROPOSED 8" WATER MAIN	8W 8W
PROPOSED 8" SEWER MAIN	8SS 8SS
PROPOSED 5/8" WATER SERVICE	W
PROPOSED SEWER SERVICE	S
PROPOSED HYDRANT	
PROPOSED SEWER MANHOLE	S
EXISTING SEWER MANHOLE	S
PROPOSED UTILITY EASEMENT	U.E.

KEYNOTES:

1. GRATED INLET. SEE DETAIL **11/C5.1**
2. HEADWALL. SEE DETAIL **12 & 13/C5.1**
3. 70' OF 18" HDPE @ 4.30%
   RIM: 1296.00
   START INV: 1293.00
   END INV: 1290.00
   SEE DETAIL FOR RETAINING WALL **14/C5.1**
4. 168' OF 12" RCP @ 4.70%
   START INV: 1293.25
   END INV: 1286.10
5. 207' OF 12" RCP @ 1.54%
   START INV: 1296.35
   END INV: 1293.10

NOT FOR CONSTRUCTION

GRADING NOTES:

A. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING. TOPSOIL FOR REPLACEMENT ON SLOPES MAY BE STOCKPILED ON SITE. EXCESS TOPSOIL MAY BE WASTED IN FILL SLOPES EXCEPT THAT NO TOPSOIL WILL BE WASTED WITHIN 10 FEET OF THE EDGE OF THE BUILDING OR PAVED AREA. BURNING OF TIMBER AND DEBRIS WILL NOT BE PERMITTED UNLESS APPROVAL IS OBTAINED FROM GOVERNING OFFICIALS.

B. AREAS TO RECEIVE FILL SHALL BE SCARIFIED AND THE TOP 8-INCH DEPTH COMPACTED TO 95% OF THE MAXIMUM DRY DENISTY PER ASTM D698. ANY UNSUITABLE AREAS SHALL BE UNDERCUT AND REPLACED WITH SUITABLE MATERIAL BEFORE ANY FILL MATERIAL CAN BE APPLIED.

C. OFF-SITE FILL MATERIAL(SANDY CLAY, CLAYEY SAND, GRAVELLY CLAY, OR CLAYEY GRAVEL), SHALL HAVE A PLASTICITY INDEX OF 15 OR LESS, A LIQUID LIMIT OF 40 OR LESS, A CBR VALUE GREATER THAN 8, AND CONTAIN NO ROCK LARGER THAN 4 INCHES. OFF-SITE FILL MATERIAL SHALL BE APPROVED BY THE DEVELOPER'S REPRESENTATIVE PRIOR TO BRINGING ON SITE.

D. AREAS THAT ARE TO BE CUT TO SUBGRADE LEVELS SHALL BE PROOF ROLLED WITH A FULLY LOADED TANDEM-AXLE DUMP TRUCK OR SIMILAR APPROVED CONSTRUCTION EQUIPMENT TO DETECT UNSUITABLE SOILS. CUT AREAS ARE TO BE SCARIFIED AND RECOMPACTED TO 95% MAXIMUM DRY DENSITY PER ASTM D698 AND TESTED BY A GEOTECHNICAL ENGINEER PRIOR TO PLACEMENT OF BASE MATERIAL.

E. IN ALL AREAS OF EXCAVATION, IF UNSUITABLE SOILS ARE ENCOUNTERED, A QUALIFIED GEOTECHNICAL ENGINEER SHALL RECOMMEND TO THE DEVELOPER'S CONSTRUCTION DIVISION ON THE METHODS OF UNDERCUTTING AND REPLACEMENT OF PROPERLY COMPACTED, APPROVED FILL MATERIAL. ALL PROOF ROLLING AND UNDERCUTTING SHALL BE PERFORMED DURING A SUFFICIENT DURATION OF DRY WEATHER PERIOD.

F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.

G. AN INDEPENDENT TESTING LABORATORY, SELECTED AND PAID BY THE CONTRACTOR, APPROVED BY THE DEVELOPER, SHALL BE RETAINED TO PERFORM CONSTRUCTION TESTING OF THE SUBGRADE FOR COMPLIANCE WITH THE MINIMUM REQUIREMENTS OF SUBGRADE COMPACTION. FOR BASE COURSE AND ASPHALT PAVING.

H. ALL SLOPES ARE TO BE 3:1 OR FLATTER UNLESS OTHERWISE INDICATED. SLOPES STEEPER THAN 3:1, BUT FLATTER THAN 2:1 SHALL BE STABILIZED BY AN APPROVED VEGETATIVE LAYER OR OTHER APPROVED METHODS.

I. ALL SLOPES EXCEEDING 2:1 SHALL BE PROTECTED BY RIP-RAP, CONCRETE PAVING, OR OTHER METHODS INDICATED ON THESE PLANS THAT WILL PREVENT EROSION, AND PLACED SUCH THAT THE SURFACE IS FLUSH WITH SURROUNDING GROUND AND SHAPED TO CHANNEL WATER IN DIRECTIONS INDICATED.

CERTIFICATE OF AUTHORIZATION ECE No. 3356 ARKANSAS ENGINEER

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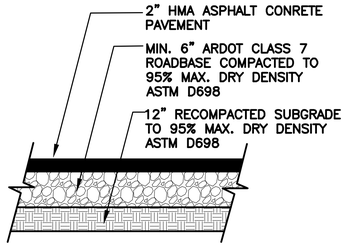
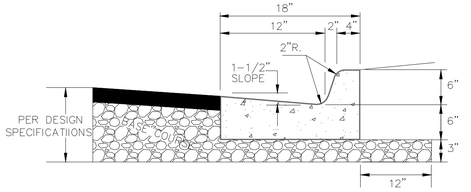


DETAIL 1 – STANDARD ASPHALT PAVEMENT SECTION
NOT TO SCALE

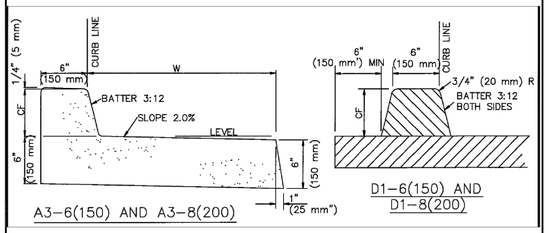


NOTES:

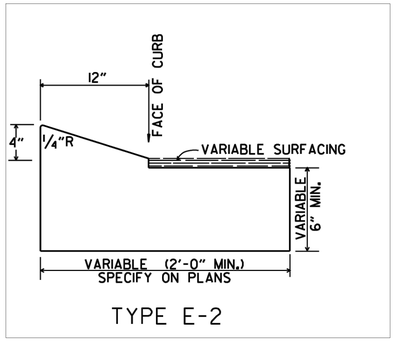
1. USE CONCRETE MIX FOR CURB AND GUTTER WITH 28 DAY CRUSHING STRENGTH AT 3500 P.S.I. MAXIMUM ALLOWABLE SLUMP IS 4".
2. PROVIDE 1/2" THICK PREFORMED BITUMINOUS EXPANSION JOINT AT A MAXIMUM SPACING OF 200 FEET.
3. PROVIDE A SAWED OR FORMED CONTRACTION JOINT EVERY 15 FEET. THE SAWED JOINT SHOULD BE 1-1/2" DEEP AND 1/4" WIDE.

DETAIL 2 – CURB AND GUTTER
NOT TO SCALE

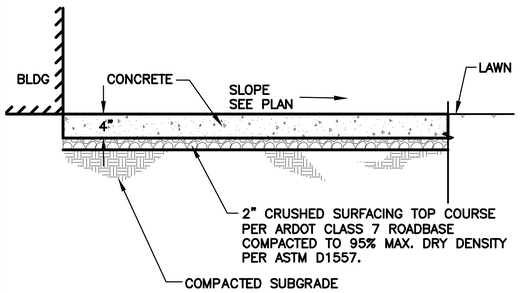
CERTIFICATE OF AUTHORIZATION ECE No. 3356 ARKANSAS ENGINEER



DETAIL 2 – CURB AND GUTTER 2
NOT TO SCALE



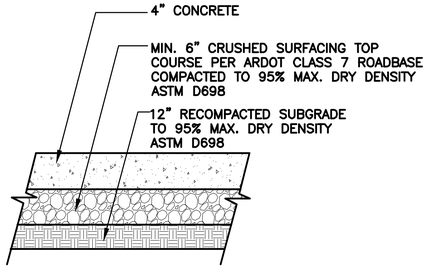
DETAIL 3 – POLLOVER CURB AND GUTTER
NOT TO SCALE



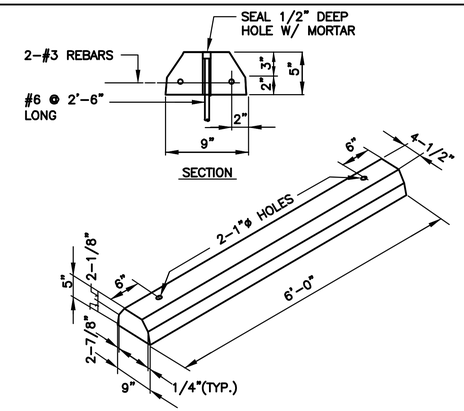
NOTES:

1. INSTALL DUMMY JOINTS AT 5'-0" C/C AND 1/2"
2. EXPANSION JOINTS AT 30'-0" C/C AND AT TERMINATIONS AGAINST SIDEWALK INTERSECTIONS UNLESS NOTED OTHERWISE BY ARCHITECT. SEE SITE PLAN FOR FINISH REQUIREMENTS.

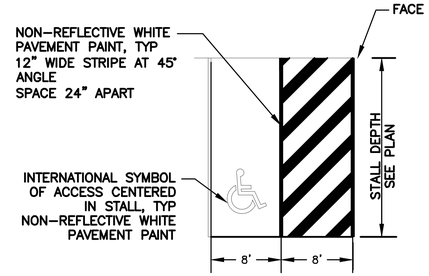
DETAIL 4 – 4" STANDARD CONCRETE SIDEWALK
NOT TO SCALE



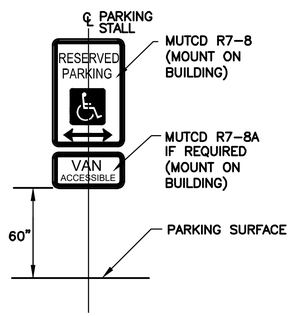
DETAIL 5 – STANDARD CONCRETE SECTION
NOT TO SCALE



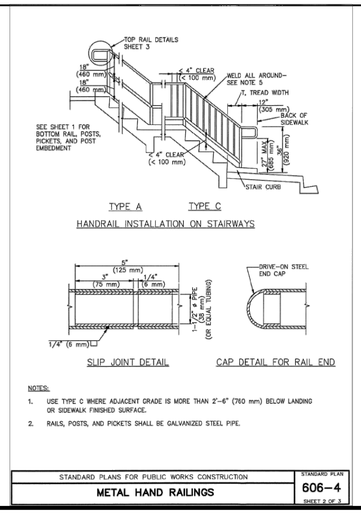
DETAIL 6 – PRECAST CONCRETE WHEEL STOP
NOT TO SCALE

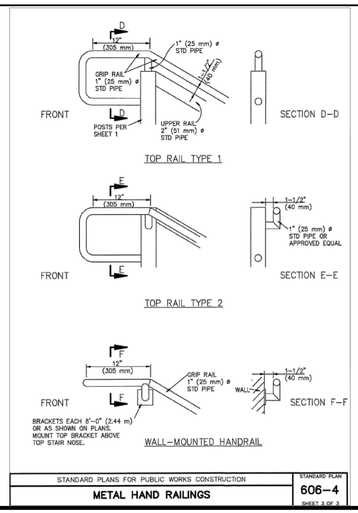


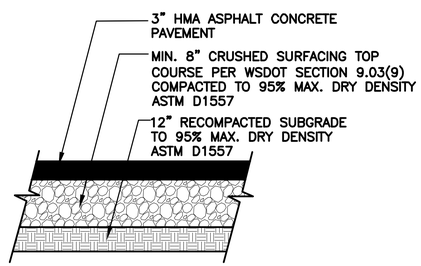
DETAIL 7 – ACCESSIBLE PARKING STRIPING
NOT TO SCALE



DETAIL 8 – ACCESSIBLE PARKING SIGN
NOT TO SCALE







DETAIL 9 – HEAVY DUTY ASPHALT PAVEMENT SECTION
NOT TO SCALE

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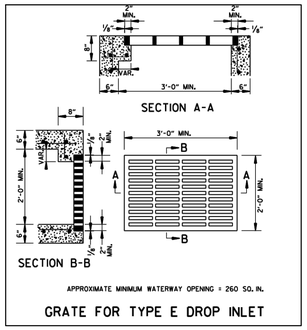
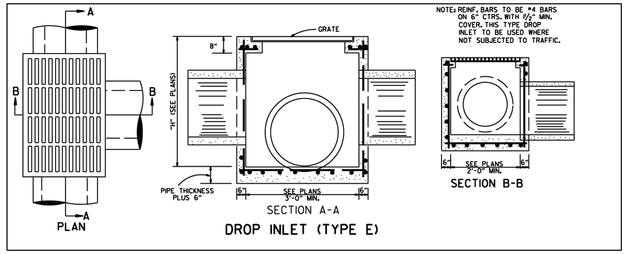


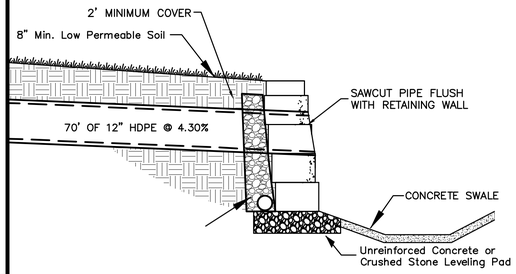
GRATE FOR TYPE E DROP INLET

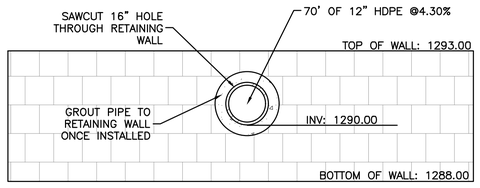


DROP INLET (TYPE E)

DETAIL 11 – GRATED INLET

NOT TO SCALE



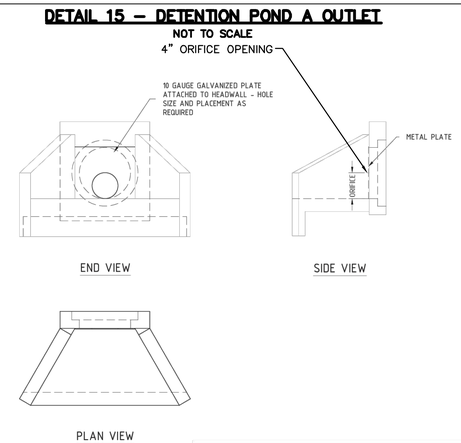


DETAIL 14 – OUTLET PIPE TO RETAINING WALL

NOT TO SCALE

DETAIL 15 – DETENTION POND A OUTLET

NOT TO SCALE



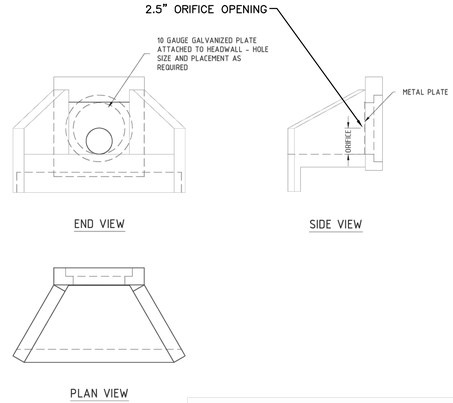
NOTE

-1.5" MIN. CONCRETE COVERAGE
-ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4"

FORTERRA	REGION, STATE: N MS / W TN	MEMPHIS PRECAST TYPE "D" ALTERNATE HEADWALL WITH ORIFICE PLATE
	DATE: 2018 / SECT.PAGE: 11.9.1	

DETAIL 15 – DETENTION POND B OUTLET

NOT TO SCALE



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LANDSCAPE SPECIFICATIONS

PART 1 - GENERAL

DESCRIPTION
PROVIDE TREES, SHRUBS, GROUND COVERS, SOD, AND ANNUALS/PERENNIALS AS SHOWN AND SPECIFIED ON THE LANDSCAPE PLAN. THE WORK INCLUDES:

1. SOIL PREPARATION.
2. TREES, GROUND COVERS.
3. PLANTING MIXES.
4. TOP SOIL, MULCH AND PLANTING ACCESSORIES.
5. MAINTENANCE.

RELATED WORK:

1. IRRIGATION SYSTEM; SEE IRRIGATION SPECIFICATIONS (SHEET L-2.2)

QUALITY ASSURANCE
PLANT NAMES INDICATED, COMPLY WITH "STANDARDIZED PLANT NAMES" AS ADOPTED BY THE LATEST EDITION OF THE AMERICAN JOINT COMMITTEE OF HORTICULTURAL NOMENCLATURE. NAMES OF VARIETIES NOT LISTED CONFORM GENERALLY WITH NAMES ACCEPTED BY THE NURSERY TRADE. PROVIDE STOCK TRUE TO BOTANICAL NAME AND LEGIBLY TAGGED.

COMPLY WITH SIZING AND GRADING STANDARDS OF THE LATEST EDITION OF "AMERICAN STANDARD FOR NURSERY STOCK". A PLANT SHALL BE DIMENSIONED AS IT STANDS IN ITS NATURAL POSITION.

ALL PLANTS SHALL BE NURSERY GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR A MINIMUM OF 1 YEARS.

NURSERY STOCK FURNISHED SHALL BE AT LEAST THE MINIMUM SIZE INDICATED. LARGER STOCK IS ACCEPTABLE, AT NO ADDITIONAL COST, AND PROVIDING THAT THE LARGER PLANTS WILL NOT BE CUT BACK TO SIZE INDICATED. PROVIDE PLANTS INDICATED BY TWO MEASUREMENTS SO THAT ONLY A MAXIMUM OF 25% ARE OF THE MINIMUM SIZE INDICATED AND 75% ARE OF THE MAXIMUM SIZE INDICATED.

BEFORE SUBMITTING A BID, THE CONTRACTOR SHALL HAVE INVESTIGATED THE SOURCES OF SUPPLY AND BE SATISFIED THAT THEY CAN SUPPLY THE LISTED PLANTS IN THE SIZE, VARIETY AND QUALITY AS SPECIFIED. FAILURE TO TAKE THIS PRECAUTION WILL NOT RELIEVE THE CONTRACTOR FROM THEIR RESPONSIBILITY FOR FURNISHING AND INSTALLING ALL PLANT MATERIALS IN STRICT ACCORDANCE WITH THE CONTRACT DOCUMENTS WITHOUT ADDITIONAL COST TO THE OWNER. THE LANDSCAPE ARCHITECT SHALL APPROVE ANY SUBSTITUTES OF PLANT MATERIAL, OR CHANGES IN PLANT MATERIAL SIZE, PRIOR TO THE LANDSCAPE CONTRACTOR SUBMITTING A BID.

DELIVER, STORAGE AND HANDLING
TAKE ALL PRECAUTIONS CUSTOMARY IN GOOD TRADE PRACTICE IN PREPARING PLANTS FOR MOVING. WORKMANSHIP THAT FAILS TO MEET THE HIGHEST STANDARDS WILL BE REJECTED. SPRAY DECIDUOUS PLANTS IN FOLIAGE WITH APPROVED "ANTI-DESICCANT" IMMEDIATELY AFTER DIGGING TO PREVENT DEHYDRATION. DIG, PACK, TRANSPORT, AND HANDLE PLANTS WITH CARE TO ENSURE PROTECTION AGAINST INJURY. INSPECTION CERTIFICATES REQUIRED BY LAW SHALL ACCOMPANY EACH SHIPMENT INVOICE OR ORDER TO STOCK. PROTECT ALL PLANTS FROM DRYING OUT. IF PLANTS CANNOT BE PLANTED IMMEDIATELY UPON DELIVERY, PROPERLY PROTECT THEM WITH SOIL, WET PEAT MOSS, OR IN A MANNER ACCEPTABLE TO THE LANDSCAPE ARCHITECT. WATER HEELED-IN PLANTINGS DAILY. NO PLANT SHALL BE BOUND WITH ROPE OR WIRE IN A MANNER THAT COULD DAMAGE OR BREAK THE BRANCHES. COVER PLANTS TRANSPORTED ON OPEN VEHICLES WITH A PROTECTIVE COVERING TO PREVENT WIND BURN.

PROJECT CONDITIONS
PROTECT EXISTING UTILITIES, PAVING, AND OTHER FACILITIES FROM DAMAGE CAUSED BY LANDSCAPE OPERATIONS.

A COMPLETE LIST OF PLANTS, INCLUDING A SCHEDULE OF SIZES, QUANTITIES, AND OTHER REQUIREMENTS ARE SHOWN ON THE DRAWINGS. IN THE EVENT THAT QUANTITY DISCREPANCIES OR MATERIAL OMISSIONS OCCUR IN THE PLANT MATERIALS LIST, THE PLANTING PLANS SHALL GOVERN.

THE IRRIGATION SYSTEM, IF REQUIRED WILL BE INSTALLED PRIOR TO PLANTING. LOCATE, PROTECT AND MAINTAIN THE IRRIGATION SYSTEM DURING PLANTING OPERATIONS. REPAIR IRRIGATION SYSTEM COMPONENTS DAMAGED DURING PLANTING OPERATIONS; AT THE CONTRACTOR'S EXPENSE. REFER TO THE IRRIGATION SPECIFICATIONS, IRRIGATION PLAN AND IRRIGATION DETAILS.

DO NOT BEGIN LANDSCAPE ACCESSORY WORK BEFORE COMPLETION OF FINAL GRADING OR SURFACING.

WARRANTY
WARRANT PLANT MATERIAL TO REMAIN ALIVE, BE HEALTHY AND IN A VIGOROUS CONDITION FOR A PERIOD OF 1 YEAR AFTER COMPLETION AND FINAL ACCEPTANCE OF ENTIRE PROJECT.

REPLACE, IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, ALL PLANTS THAT ARE DEAD OR, ARE IN AN UNHEALTHY, OR UNSIGHTLY CONDITION, AND HAVE LOST THEIR NATURAL SHAPE DUE TO DEAD BRANCHES, OR OTHER CAUSES DUE TO THE CONTRACTOR'S NEGLIGENCE. THE COST OF SUCH REPLACEMENT(S) IS AT THE CONTRACTOR'S EXPENSE. WARRANT ALL REPLACEMENT PLANTS FOR 1 YEAR AFTER INSTALLATION.

WARRANTY SHALL NOT INCLUDE DAMAGE, LOSS OF TREES, PLANTS, OR GROUND COVERS CAUSED BY FIRES, FLOODS, FREEZING RAINS, LIGHTNING STORMS, WINDS OVER 75 MILES PER HOUR, WINTER KILL CAUSED BY EXTREME COLD, SEVERE WINTER CONDITIONS NOT TYPICAL OF PLANTING AREA, AND/OR ACTS OF VANDALISM OR NEGLIGENCE ON A PART OF THE OWNER.

REMOVE AND IMMEDIATELY REPLACE ALL PLANTS, FOUND TO BE UNSATISFACTORY DURING THE INITIAL PLANTING INSTALLATION.

MAINTAIN AND PROTECT PLANT MATERIAL, LAWNS, AND IRRIGATION UNTIL FINAL ACCEPTANCE IS MADE.

ACCEPTANCE
INSPECTION OF PLANTED AREAS WILL BE MADE BY THE OWNER'S REPRESENTATIVE.

1. PLANTED AREAS WILL BE ACCEPTED PROVIDED ALL REQUIREMENTS, INCLUDING MAINTENANCE, HAVE BEEN COMPLIED WITH AND PLANT MATERIALS ARE ALIVE AND IN A HEALTHY, VIGOROUS CONDITION.

UPON ACCEPTANCE, THE CONTRACTOR SHALL COMMENCE THE SPECIFIED PLANT MAINTENANCE.

CODES, PERMITS AND FEES
OBTAIN ANY NECESSARY PERMITS FOR THIS SECTION OF WORK AND PAY ANY FEES REQUIRED FOR PERMITS.

THE ENTIRE INSTALLATION SHALL FULLY COMPLY WITH ALL LOCAL AND STATE LAWS AND ORDINANCES, AND WITH ALL ESTABLISHED CODES APPLICABLE THERETO; ALSO AS DEPICTED ON THE LANDSCAPE AND IRRIGATION CONSTRUCTION SET.

PART 2 - PRODUCTS

MATERIALS
PLANTS: PROVIDE TYPICAL OF THEIR SPECIES OR VARIETY; WITH NORMAL, DENSELY DEVELOPED BRANCHES AND VIGOROUS, FIBROUS ROOT SYSTEMS. PROVIDE ONLY SOUND, HEALTHY, VIGOROUS PLANTS FREE FROM DEFECTS, DISFIGURING KNOTS, SUN SCALD INJURIES, FROST CRACKS, ABRASIONS OF THE BARK, PLANT DISEASES, INSECT EGGS, BORERS, AND ALL FORMS OF INFESTATION. ALL PLANTS SHALL HAVE A FULLY DEVELOPED FORM WITHOUT VOIDS AND OPEN SPACES. PLANTS HELD ON STORAGE WILL BE REJECTED IF THEY SHOW SIGNS OF GROWTH DURING THE STORAGE PERIOD.

1. BALLED AND PLANTS WRAPPED WITH BURLAP. TO HAVE FIRM, NATURAL BALLS OF EARTH OF SUFFICIENT DIAMETER AND DEPTH TO ENCOMPASS THE FIBROUS AND FEEDING ROOT SYSTEM NECESSARY FOR FULL RECOVERY OF THE PLANT. PROVIDE BALL SIZES COMPLYING WITH THE LATEST EDITION OF THE "AMERICAN STANDARD FOR NURSERY STOCK". CRACKED OR MUSHROOMED BALLS, OR SIGNS OF CIRCLING ROOTS ARE NOT ACCEPTABLE.
2. CONTAINER- GROWN STOCK: GROWN IN A CONTAINER FOR SUFFICIENT LENGTH OF TIME FOR THE ROOT SYSTEM TO HAVE DEVELOPED TO HOLD ITS SOIL TOGETHER, FIRM AND WHOLE.
   a. NO PLANTS SHALL BE LOOSE IN THE CONTAINER.
   b. CONTAINER STOCK SHALL NOT BE POT BOUND.
3. PLANTS PLANTED IN ROWS SHALL BE MATCHED IN FORM.
4. PLANTS LARGER THAN THOSE SPECIFIED IN THE PLANT LIST MAY BE USED WHEN ACCEPTABLE TO THE LANDSCAPE ARCHITECT.
   a. IF THE USE OF LARGER PLANTS IS ACCEPTABLE, INCREASE THE SPREAD OF ROOTS OR ROOT BALL IN PROPORTION TO THE SIZE OF THE PLANT.
5. THE HEIGHT OF THE TREES, MEASURED FROM THE CROWN OF THE ROOTS TO THE TOP OF THE TOP BRANCH, SHALL NOT BE LESS THAN THE MINIMUM SIZE DESIGNATED IN THE PLANT LIST.
6. NO PRUNING WOUNDS SHALL BE PRESENT WITH A DIAMETER OF MORE THAN 1" AND SUCH WOUNDS MUST SHOW VIGOROUS BARK ON ALL EDGES.

ACCESSORIES
TOPSOIL: SHALL BE FERTILE, FRIABLE, NATURAL TOPSOIL OF LOAMY CHARACTER, WITHOUT ADMIXTURE OF SUBSOIL MATERIAL, OBTAINED FROM A WELL-DRAINED ARABLE SITE, REASONABLY FREE FROM CLAY, LUMPS, COARSE SANDS, STONES, ROOTS, STICKS, AND OTHER FOREIGN MATERIALS, WITH ACIDITY RANGE OF BETWEEN PH 6.0 AND 6.8.

NOTE: ALL PLANTING AREAS SHALL BE CLEANED OF CONSTRUCTION DEBRIS (IE. CONCRETE, RUBBLE, STONES, BUILDING MATERIAL, ETC.) PRIOR TO ADDING AND SPREADING OF THE TOP SOIL.

1. SOD AREAS: SPREAD A MINIMUM 4" LAYER OF TOP SOIL AND RAKE SMOOTH.
2. PLANTING BED AREAS: SPREAD A MINIMUM 4" LAYER OF TOP SOIL AND RAKE SMOOTH.
3. LANDSCAPE ISLANDS/MEDIANS: FRACTURE/LOOSEN EXISTING SUBGRADE TO A MINIMUM 24" DEPTH. REMOVE AND REPLACE ANY SUBGRADE UNSUITABLE FOR PLANTING. ONCE SUBGRADE IS CLEAN OF DEBRIS AND LOOSENED, ADD TOPSOIL TO A MINIMUM BERM 6"-8" HEIGHT ABOVE ISLAND CURBING.
4. ANNUAL/PERENNIAL BED AREAS: ADD A MINIMUM OF 4" ORGANIC MATTER AND TILL TO A MINIMUM 12" DEPTH.

MULCH: TYPE SELECTED DEPENDENT ON REGION AND AVAILABILITY; SEE LANDSCAPE PLANS FOR TYPE OF MUCH TO BE USED. HOLD MULCH 4" FROM TREE TRUNKS AND SHRUB STEMS.

1. HARDWOOD: 6 MONTH OLD WELL ROTTED DOUBLE SHREDDED NATIVE HARDWOOD BARK MULCH NOT LARGER THAN 4" IN LENGTH AND ½" IN WIDTH, FREE OF WOOD CHIPS AND SAWDUST. INSTALL MINIMUM DEPTH OF 3".

GUYING/STAKING:

1. ARBORTIE: GREEN (OR WHITE) STAKING AND GUYING MATERIAL TO BE FLAT, WOVEN, POLYPROPYLENE MATERIAL, ¾" WIDE 900 LB. BREAK STRENGTH. ARBORTIE SHALL BE FASTENED TO STAKES IN A MANNER WHICH PERMITS TREE MOVEMENT AND SUPPORTS THE TREE.
2. REMOVE GUYING/STAKING AFTER ONE YEAR FROM PLANTING.

TREE WRAP: TREE WRAPS SHOULD BE USED ON YOUNG, NEWLY PLANTED THIN-BARKED TREES (CHERRY, CRABAPPLE, HONEY LOCUST, LINDEN, MAPLE, MOUNTAIN ASH, PLUM) THAT ARE MOST SUSCEPTIBLE TO SUN SCALD/SUNBURN. STANDARD WATERPROOFED TREE WRAPPING PAPER, 2-1/2" WIDE, MADE OF 2 LAYERS OF CREPE DRAFT PAPER WEIGHING NOT LESS THAN 30 LBS. PER REAM, CEMENTED TOGETHER WITH ASPHALT. WRAP THE TREE IN THE FALL AND LEAVE THE WRAP IN PLACE THROUGHOUT THE WINTER AND EARLY SPRING. TREE WRAPS ARE TEMPORARY AND NO LONGER NEEDED ONCE TREES DEVELOP CORKY BARK.

PART 3 - EXECUTION

INSPECTION
PRIOR TO BEGINNING WORK, THE LANDSCAPE CONTRACTOR SHALL INSPECT THE SUBGRADE, GENERAL SITE CONDITIONS, VERIFY ELEVATIONS, UTILITY LOCATIONS, IRRIGATION, APPROVE TOP SOIL PROVIDED BY THE GENERAL CONTRACTOR AND OBSERVE THE SITE CONDITIONS UNDER WHICH THE WORK IS TO BE DONE. NOTIFY THE GENERAL CONTRACTOR OF ANY UNSATISFACTORY CONDITIONS, AND WORK SHALL NOT PROCEED UNTIL SUCH CONDITIONS HAVE BEEN CORRECTED AND ARE ACCEPTABLE TO THE LANDSCAPE CONTRACTOR.

PREPARATION
PLANTING SHALL BE PERFORMED ONLY BY EXPERIENCED WORKMEN FAMILIAR WITH PLANTING PROCEDURES UNDER THE SUPERVISION OF A QUALIFIED SUPERVISOR.

LOCATE PLANTS AS INDICATED ON THE PLANS OR AS APPROVED IN THE FIELD AFTER STAKING BY THE LANDSCAPE CONTRACTOR. IF OBSTRUCTIONS ARE ENCOUNTERED THAT ARE NOT SHOWN ON THE DRAWINGS, DO NOT PROCEED WITH PLANTING OPERATIONS UNTIL ALTERNATE PLANT LOCATIONS HAVE BEEN SELECTED AND APPROVED BY THE LANDSCAPE ARCHITECT; SPACING OF PLANT MATERIAL SHALL BE AS SHOWN ON THE LANDSCAPE PLAN.

EXCAVATE CIRCULAR PLANT PITS WITH VERTICAL SIDES, EXCEPT FOR PLANTS SPECIFICALLY INDICATED TO BE PLANTED IN BEDS. PROVIDE SHRUB PITS AT LEAST 12" GREATER THAN THE DIAMETER OF THE ROOT SYSTEM AND 24" GREATER FOR TREES. DEPTH OF PIT SHALL ACCOMMODATE THE ROOT SYSTEM. PROVIDE UNDISTURBED SUB GRADE TO HOLD ROOT BALL AT NURSERY GRADE AS SHOWN ON THE DRAWINGS.

INSTALLATION
SET PLANT MATERIAL IN THE PLANTING PIT TO PROPER GRADE AND ALIGNMENT. SET PLANTS UPRIGHT, PLUMB, AND FACED TO GIVE THE BEST APPEARANCE OR RELATIONSHIP TO EACH OTHER OR ADJACENT STRUCTURE. SET PLANT MATERIAL 2" - 3" ABOVE THE FINISH GRADE. NO FILLING WILL BE PERMITTED AROUND TRUNKS OR STEMS. BACKFILL THE PIT WITH TOPSOIL MIX AND EXCAVATED MATERIAL. DO NOT USE FROZEN OR MUDDY MIXTURES FOR BACKFILLING. FORM A RING OF SOIL AROUND THE EDGE OF EACH PLANTING PIT TO RETAIN WATER.

AFTER BALLED AND WRAPPED IN BURLAP PLANTS ARE SET, MUDDLE PLANTING SOIL MIXTURE AROUND BASES OF BALLS AND FILL ALL VOIDS.

1. REMOVE ALL BURLAP, ROPES, AND WIRES FROM THE TOP 1/3 OF THE ROOT BALL

SPACE GROUND COVER PLANTS IN ACCORDANCE WITH INDICATED DIMENSIONS. ADJUST SPACING AS NECESSARY TO EVENLY FILL PLANTING BED WITH INDICATED QUANTITY OF PLANTS. PLANT TO WITHIN 24" OF THE TRUNKS OF TREES AND SHRUBS WITHIN PLANTING BED AND TO WITHIN 18" OF EDGE OF BED.

MULCHING:

1. MULCH TREE AND SHRUB PLANTING PITS AND SHRUB BEDS WITH REQUIRED MULCHING MATERIAL (SEE LANDSCAPE PLAN FOR MULCH TYPE); DEPTH OF MULCH AS NOTED ABOVE. HOLD MULCH BACK 4" AWAY FROM TREE TRUNKS AND SHRUB STEMS. THOROUGHLY WATER MULCHED AREAS. AFTER WATERING, RAKE MULCH TO PROVIDE A UNIFORM FINISHED SURFACE.

WRAPPING, GUYING, STAKING:

1. INSPECT TREES FOR INJURY TO TRUNKS, EVIDENCE OF INSECT INFESTATION, AND IMPROPER PRUNING BEFORE WRAPPING.
2. WRAPPING:
   a. WRAP TRUNKS OF ALL YOUNG NEWLY PLANTED TREES KNOWN TO HAVE THIN BARK. WRAP SPIRALLY FROM BOTTOM TO TOP WITH SPECIFIED TREE WRAP AND SECURE IN PLACE.
   b. OVERLAP ½ THE WIDTH OF THE TREE WRAP STRIP AND COVER THE TRUNK FROM THE GROUND TO THE HEIGHT OF THE SECOND BRANCH.
   c. SECURE TREE WRAP IN PLACE WITH TWINE WOUND SPIRALLY DOWNWARD IN THE OPPOSITE DIRECTION, TIED AROUND THE TREE IN AT LEAST 3 PLACES IN ADDITION TO THE TOP AND BOTTOM.
   d. WRAP THE TREES IN THE FALL AND LEAVE THE WRAP IN PLACE THROUGHOUT THE WINTER AND EARLY SPRING.
   e. TREE WRAPS ARE TEMPORARY AND NO LONGER NEEDED ONCE THE TREES DEVELOP CORKY BARK.
3. STAKING/GUYING:
   a. STAKE/GUY ALL TREES IMMEDIATELY AFTER LAWN SODDING OPERATIONS AND PRIOR TO ACCEPTANCE.
   b. STAKE DECIDUOUS TREES 2" CALIPER AND LESS. STAKE EVERGREEN TREES UNDER 7'-0" TALL.
4. STAKES ARE PLACED IN LINE WITH PREVAILING WIND DIRECTION AND DRIVEN INTO UNDISTURBED SOIL.
5. TIES ARE ATTACHED TO THE TREE, USUALLY AT THE LOWEST BRANCH.
   a. GUY DECIDUOUS TREES OVER 2" CALIPER. GUY EVERGREEN TREES 7'-0" TALL AND OVER.
      i. GUY WIRES TO BE ATTACHED TO THREE STAKES DRIVEN INTO UNDISTURBED SOIL, WITH ONE STAKE PLACED IN THE DIRECTION OF THE PREVAILING WIND.
      ii. TIES ARE ATTACHED TO THE TREE AS HIGH AS PRACTICAL.
6. THE AXIS OF THE STAKE SHOULD BE AT 90-DEGREE ANGLE TO THE AXIS ON THE PULL OF THE GUY WIRE.
7. REMOVE ALL GUYING AND STAKING AFTER ONE YEAR FROM PLANTING.

PRUNING:

1. PRUNE DECIDUOUS TREES AND EVERGREENS ONLY TO REMOVE BROKEN OR DAMAGED BRANCHES.

WORKMANSHIP
DURING LANDSCAPE/IRRIGATION INSTALLATION OPERATIONS, ALL AREAS SHALL BE KEPT NEAT AND CLEAN. PRECAUTIONS SHALL BE TAKEN TO AVOID DAMAGE TO EXISTING STRUCTURES. ALL WORK SHALL BE PERFORMED IN A SAFE MANNER TO THE OPERATORS, THE OCCUPANTS AND ANY PEDESTRIANS.

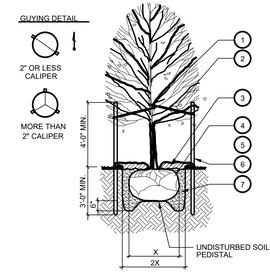
UPON COMPLETION OF INSTALLATION OPERATIONS, ALL EXCESS MATERIALS, EQUIPMENT, DEBRIS AND WASTE MATERIAL SHALL BE CLEANED UP AND REMOVED FROM THE SITE; UNLESS PROVISIONS HAVE BEEN GRANTED BY THE OWNER TO USE ON-SITE TRASH RECEPTACLES. SWEEP PARKING AND WALKS CLEAN OF DIRT AND DEBRIS. REMOVE ALL PLANT TAGS AND OTHER DEBRIS FROM LAWNS AND PLANTING AREAS.

ANY DAMAGE TO THE LANDSCAPE, THE STRUCTURE, OR THE IRRIGATION SYSTEM CAUSED BY THE LANDSCAPE CONTRACTOR SHALL BE REPAIRED BY THE LANDSCAPE CONTRACTOR WITHOUT CHARGE TO THE OWNER.

MAINTENANCE
CONTRACTOR SHALL PROVIDE MAINTENANCE UNTIL WORK HAS BEEN ACCEPTED BY THE OWNER'S REPRESENTATIVE.

MAINTENANCE SHALL INCLUDE MOWING, FERTILIZING, MULCHING, PRUNING, CULTIVATION, WEEDING, WATERING, AND APPLICATION OF APPROPRIATE INSECTICIDES AND FUNGICIDES NECESSARY TO MAINTAIN PLANTS AND LAWNS FREE OF INSECTS AND DISEASE.

1. RE-SET SETTLED PLANTS TO PROPER GRADE AND POSITION. RESTORE PLANTING SAUCER AND ADJACENT MATERIAL AND REMOVE DEAD MATERIAL.
2. REPAIR GUY WIRES AND STAKES AS REQUIRED. REMOVE ALL STAKES AND GUY WIRES AFTER 1 YEAR.
3. CORRECT DEFECTIVE WORK AS SOON AS POSSIBLE AFTER DEFICIENCIES BECOME APPARENT AND WEATHER AND SEASON PERMIT.
4. WATER TREES, PLANTS AND GROUND COVER BEDS WITHIN THE FIRST 24 HOURS OF INITIAL PLANTING, AND NOT LESS THAN TWICE PER WEEK UNTIL FINAL ACCEPTANCE.



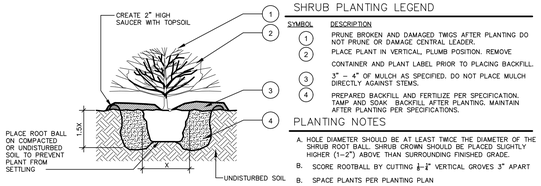
DECIDUOUS TREE PLANTING LEGEND

SYMBOL	DESCRIPTION
1	TREE STRAP LOOP AT FIRST BRANCH. USE RUBBER HOSE OR APPROVED EQUAL TO PREVENT DAMAGE TO TREE.
2	12 GAUGE GALVANIZED WIRE & 1-1/2 PVC PIPE
3	4" ORGANIC MULCH PER SPECIFICATIONS. DO NOT PLACE MULCH AGAINST TREE TRUNCK
4	REMOVE WIRE BASKET AND REMOVE BURLAP & ROPE FROM TOP ⅓ OF ROOT BALL.
5	TREE SAUCER (FORMED BY MIN. 4" THICK MULCH)
6	8' METAL TEE STAKE. KEEP STAKE PLUMB AND SECURED OUTSIDE OF TREE PIT.
7	PREPARED BACKFILL-TAMP TO PREVENT SETTLEMENT. SOAK BACKFILL AFTER PLANTING.

PLANTING NOTES

A. RETAIN NATURAL SHAPE. DO NOT SHEAR OR CUT CENTRAL LEADER. TREES WITH CENTRAL LEADERS ARE NOT ACCEPTED IF LEADER IS DAMAGED OR REMOVED.
B. PRUNE ALL DAMAGED TWIGS AFTER PLANTING
C. WRAP TREES TO FIRST BRANCH IF PLANTED IN FALL. DO NOT WRAP IF PLANTED IN SPRING.
D. TREES TO BE INSTALLED SO TOP OF ROOT BALLS LEVEL WITH ADJACENT GRADE. TREE SHALL BEAR SAME RELATION TO FINISH GRADE AS MAINTAINED AT NURSERY
E. PLACE TREE BALL ON FIRM UNDISTURBED SOIL.
F. IF POSSIBLE MARL TREE TRUNK ON THE NORTHERN SIDE AT THE NURSERY AND PLANT TREE WITH MARK FACING NORTH
G. TOPSOIL USED SHALL BE AS SPECIFIED IN THE LANDSCAPE SPECIFICATIONS.

1 TREE PLANTING DETAIL
N.T.S.



SHRUB PLANTING LEGEND

SYMBOL	DESCRIPTION
1	PRUNE BROKEN AND DAMAGED TWIGS AFTER PLANTING DO NOT PRUNE OR DAMAGE CENTRAL LEADER.
2	PLACE PLANT IN VERTICAL, PLUMB POSITION. REMOVE CONTAINER AND PLANT LABEL PRIOR TO PLACING BACKFILL.
3	3" – 4" OF MULCH AS SPECIFIED. DO NOT PLACE MULCH DIRECTLY AGAINST STEMS.
4	PREPARED BACKFILL AND FERTILIZE PER SPECIFICATION. TAMP AND SOAK BACKFILL AFTER PLANTING. MAINTAIN AFTER PLANTING PER SPECIFICATIONS.

PLANTING NOTES

A. HOLE DIAMETER SHOULD BE AT LEAST TWICE THE DIAMETER OF THE SHRUB ROOT BALL. SHRUB CROWN SHOULD BE PLACED SLIGHTLY HIGHER (1–2") ABOVE THAN SURROUNDING FINISHED GRADE.
B. SCORE ROOTBALL BY CUTTING ¼–1" VERTICAL GROVES 3" APART
B. SPACE PLANTS PER PLANTING PLAN

2 CONTAINER SHRUB PLANTING DETAIL
N.T.S.

3/14/2023

Know what's below. Call before you dig.

NOT FOR CONSTRUCTION

JAMES E. GIBSON 5034 — REGISTERED LANDSCAPE ARCHITECT — STATE OF ARKANSAS
3/14/2023
LANDTEK STUDIOS
2503 SWEETBRIAR DR.
FAYETTEVILLE, AR 72703
PH# 479.283.9721

Rev	Comments	Date

PAM TRANSPORT PARKING LOT
297 W HENRI DE TONTI BLVD SPRINGDALE, AR 72762

SSI, INC
400 JEAN MARY AVE SPRINGDALE, AR 72762

9200 SUITS US DR, STE B
BELLA VISTA, AR 72714
O: (479) 364-0028
D: (479) 367-2924
M: (509) 759-5300
EMAIL: jason@ece-pllc.com

Expedient Civil Engineering, PLLC

DRAWN BY: JWG
CHECKED BY: JEI
DATE 10/1/2020
JOB NUMBER 22-1042

SHEET NAME
LANDSCAPE DETAILS AND SPECIFICATIONS

File No.
Pam Transportation Parkin Lot Tontitown AR 2023-03-14.dwg

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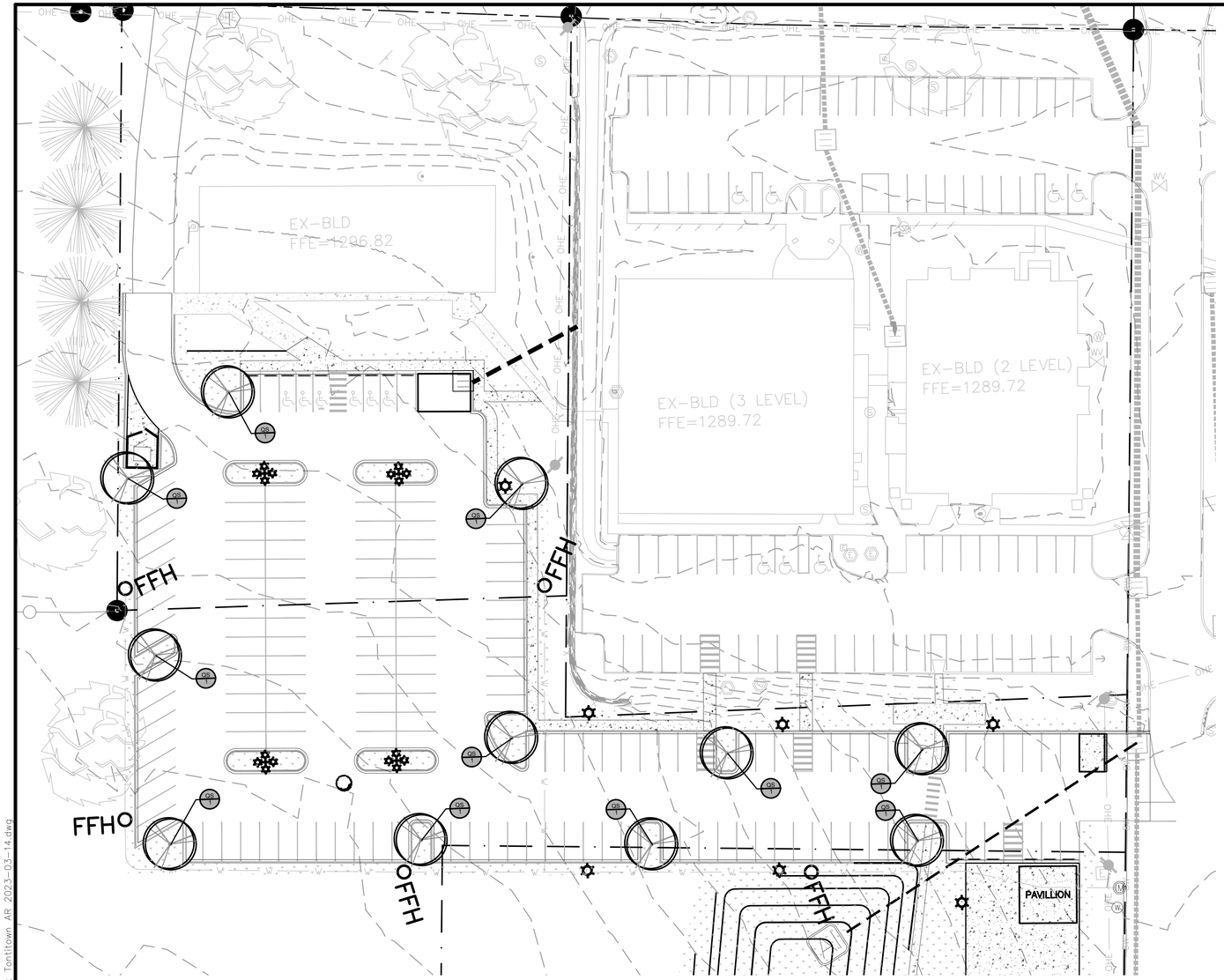

NORTH

30' 0 30'

SCALE 1"=30'

LEGEND

FOUND IRON PIN
PROPERTY LINE
PROPOSED RIGHT-OF-WAY
EXISTING ASPHALT
EXISTING EDGE OF PAVEMENT
EXISTING CENTERLINE OF ROAD
EXISTING LIGHT
EXISTING ELECTRIC BOX
EXISTING TELEPHONE BOX
EXISTING CONCRETE
PROPOSED CURB
PROPOSED SIDEWALK
PROPOSED ASPHALT
PROPOSED STREETLIGHT

PLANT SCHEDULE

TREES	CODE	BOTANICAL / COMMON NAME	CALIPER	ROOT	HEIGHT	QTY
	QS	Quercus shumardii / Shumard Red Oak	2.5" Cal.	B&B or Cont.	10` minimum	11

GROUND COVERS	CODE	BOTANICAL / COMMON NAME	QTY
	CT	Cynodon dactylon `Tif 419` / Bermuda Grass	24,785 sf

LANDSCAPE CALCULATIONS

PERIMETER TREES (REAR / SIDES)
N/A*

STREET TREES:
1 TREE + 5 SHRUBS EVERY 30 LINEAR FEET OF STREET FRONTAGE
N/A**

PARKING LOT TREES:
1 TREE PER 15 PARKING SPACES
155 PARKING SPACES / 15 = 10 TREES REQUIRED — 10 TREES PROVIDED

BUILDING FRONTAGE LANDSCAPING:
N/A***

*EXISTING TREES WILL SERVE AS PERIMETER TREES
**PROPERTY DOES NOT FRONT A ROAD
***BUILDINGS ARE NOT WITHIN THE CONSTRUCTION LIMITS

LANDSCAPE GENRAL NOTES

1. CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO STARTING ANY WORK. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ARKANSAS ONE-CALL TO CONFIRM ALL UTILITIES.
2. ALL PLANTS MUST BE HEALTHY, VIGOROUS AND FREE OF PESTS AND DISEASE.
3. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
4. ALL PLANTS MUST BE CONTAINER GROWN OR BALLED AND BURLAPPED AS INDICATED ON THE PLANT LIST.
5. ALL REQUIRED TREES SHALL BE 2" MINIMUM CALIPER, WITH A SINGLE DOMINATE CENTRAL LEADER. MULTI LEADERED TREES WILL NOT BE ACCEPTABLE WITHOUT PRIOR APPROVAL FROM URBAN FORESTRY.
6. ALL TREES MUST BE STRAIGHT TRUNKED AND FULL HEADED, UNLESS SPECIFIED OTHERWISE, AND MUST MEET ALL REQUIREMENTS SPECIFIED ON PLANS.
7. ALL TREES AND SHRUBS SHALL BE INSTALLED PER THE DETAILS AND SPECIFICATIONS ON SHEET LP-2.
8. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT BEFORE, DURING, AND AFTER CONSTRUCTION.
9. ALL PLANTING AREAS MUST BE COMPLETELY MULCHED WITH A 4" LAYER OF ORGANIC HARDWOOD MULCH. MULCH SHALL BE NOT BE PLACED IMMEDIATELY ADJACENT TO TREE TRUNKS, BUT SHALL BE KEPT AT LEAST 3" FROM ROOT COLLAR AT THE SOIL LINE.
10. ALL PROPOSED PLANTING AREAS COVERED BY GRASS SHALL HAVE THE SOD COMPLETELY REMOVED BEFORE PLANTING BEGINS.
11. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE CONSTRUCTION AT NO COST TO THE OWNER.
12. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES SHOWN ON THESE PLANS BEFORE PRICING THE WORK.
13. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING MATERIAL (INCLUDING BUT NOT LIMITED TO: WATERING, SPRAYING, MULCHING, FERTILIZING, ETC.) IN ALL PLANTING AREAS AND LAWN AREAS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE OWNER.
14. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING ON THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
15. ANY PLANT MATERIAL WHICH DIES, TURNS BROWN, OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE AND MEETING ALL PLANT LIST SPECIFICATIONS.
16. NOTIFY LANDSCAPE ARCHITECT OR DESIGNATED REPRESENTATIVE OF ANY LAYOUT DISCREPANCIES PRIOR TO ANY PLANTING. LOCATE ALL UTILITIES AND SITE LIGHTING CONDUITS BEFORE CONSTRUCTION BEGINS.
17. ALL 3:1 SLOPES OR GREATER ARE TO BE PLANTED WITH 100% BERMUDA GRASS SOD.
18. ALL DISTURBED AREAS NOT DESIGNATED TO BE SODDED SHALL BE SEEDED WITH A GRASS SEED MIX CONSISTING OF 70% TURF TYPE FESCUE, 20% PERENNIAL RYE, AND 10% BERMUDA GRASS AT 5 POUNDS PER 1,000 SQUARE FEET, EXCEPT WHERE NOTED ON PLAN.
19. ALL AREAS TO BE SEEDED SHALL RECEIVE 4" OF TOPSOIL AND BE GRADED PER THE GRADING PLAN.
20. IRRIGATION SHALL BE EITHER AN UNDERGROUND AUTOMATIC SYSTEM OR SHALL UTILIZE HOSE BIBS EVERY 100'
21. MAINTENANCE: THE CURRENT OWNER OF THE PROPERTY SHALL BE RESPONSIBLE FOR THE ONGOING MAINTENANCE OF REQUIRED LANDSCAPING.
22. REPLACEMENT LANDSCAPING: REQUIRED LANDSCAPING THAT DIES OR IS DAMAGED SHALL BE REMOVED AND REPLACED BY THE CURRENT OWNER OF THE PROPERTY. THE OWNER SHALL HAVE 60 DAYS FROM THE RECEIPT OF WRITTEN NOTICE ISSUED BY THE CITY TO REMOVE AND REPLACE ANY REQUIRED LANDSCAPING THAT DIES OR IS DAMAGED.

MULCHES

CONTRACTOR SHALL INSTALL 3-4" THICK LAYER OF DOUBLE SHREDDED NON-CYPRESS HARDWOOD WOOD MULCH OVER ALL NEW TREES, SHRUBS AND PERENNIAL BEDS PER THE DETAILS ON THE DETAIL SHEET. SAMPLES OF ALL MULCHES SHALL BE SUBMITTED TO THE OWNER OR LANDSCAPE ARCHITECT FOR APPROVAL BEFORE BEING PLACED. THERE SHALL BE NO EXPOSED GROUND IN ANY OF THE AREAS BEING COVERED BY MULCH AFTER INSTALLATION.

3/14/2023

Know what's below. Call before you dig.

NOT FOR CONSTRUCTION

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3/14/2023
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EMAIL: jason@ece-pllc.com

Expedient Civil Engineering, PLLC

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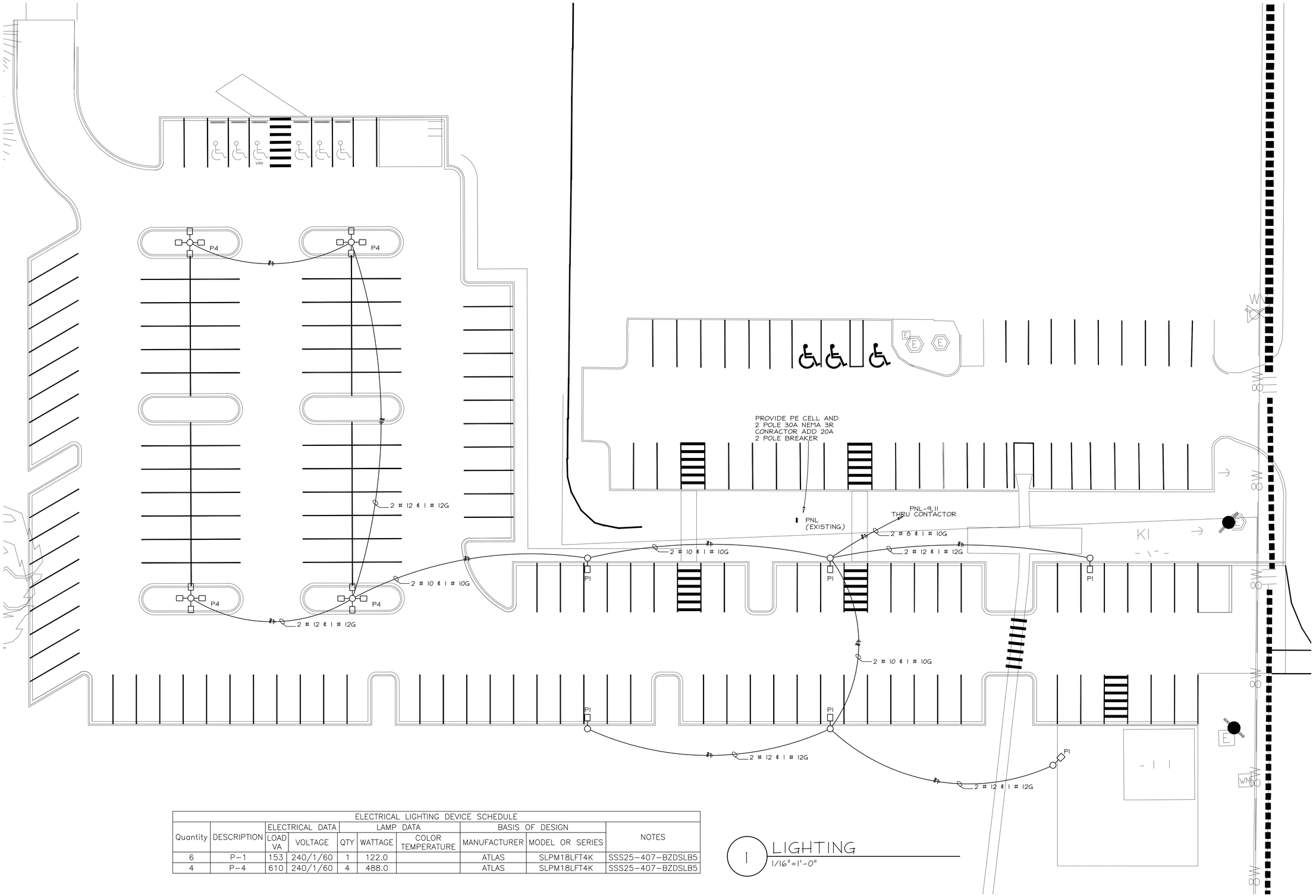

ELECTRICAL LIGHTING DEVICE SCHEDULE									
Quantity	DESCRIPTION	ELECTRICAL DATA		LAMP DATA			BASIS OF DESIGN		NOTES
		LOAD VA	VOLTAGE	QTY	WATTAGE	COLOR TEMPERATURE	MANUFACTURER	MODEL OR SERIES	
6	P-1	153	240/1/60	1	122.0		ATLAS	SLPM18LFT4K	SSS25-407-BZDSLB5
4	P-4	610	240/1/60	4	488.0		ATLAS	SLPM18LFT4K	SSS25-407-BZDSLB5

1 LIGHTING
1/16"=1'-0"

KE
KING ELECTRIC
96 Lillie Lane Ln
Fayetteville, AR
(479) 443-0006

REVISIONS

MARK	DESCRIPTION

NORTH

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 2918 ROBERT M. JONES

Mar 02, 2023

PROJECT
PAM TRUCKING PARKING LOT
297 HENRI DE TONTI BVL
SPRINGDALE, ARKANSAS 72762

TITLE
ELECTRICAL
LIGHTING

SHEET OF	BID SET DATE
DRAWN BY RMJ	CHECKED BY
SCALE AS SHOWN	ISSUED FOR CONSTRUCTION
PROJECT NUMBER	DATE PLOTTED: Mar 02, 2023

E-1

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LIGHTING FIXTURES

LIGHTING FIXTURE WITH LED, H.I.D. OR INCANDESCENT LAMP, CEILING OR PENDENT MOUNTED. A DENOTES FIXTURE TYPE.

LIGHTING FIXTURE WITH LED, H.I.D. OR INCANDESCENT LAMP. WALL OR BRACKET MOUNTED. SAME NOTATIONS AS ABOVE.

FLUORESCENT OR LED STRIP LIGHTING FIXTURE. SAME NOTATIONS AS ABOVE.

FLUORESCENT OR LED LAYIN OR SURFACE MOUNTED LIGHTING FIXTURE. SAME NOTATIONS AS ABOVE.

FLOODLIGHTING FIXTURE WITH LED OR H.I.D. LAMP. WALL OR SURFACE MOUNTED. ARROW INDICATES DIRECTION OF BEAM. SAME NOTATION AS ABOVE.

EXIT LIGHT FIXTURE, SURFACE, PENDENT OR CEILING MOUNTED. ARROWS, WHERE SHOWN, INDICATE DIRECTION OF EGRESS. SINGLE OR DOUBLE FACE AS NOTED PER FIXTURE DESCRIPTION. SAME NOTATIONS AS ABOVE.

FLUORESCENT OR LED LAYIN OR SURFACE LIGHTING FIXTURE CONNECTED TO EMERGENCY AC POWER SYSTEM OR WITH BATTERY/INVERTER PACK. SAME NOTATIONS AS ABOVE.

BATTERY UNIT. 12 VOLT DC OR EXTERNALLY SUPPLIED EMERGENCY POWER. COMPLETE WITH TWO ADJUSTABLE HEADS.

LIGHTING FIXTURE WITH LED, H.I.D. OR INCANDESCENT LAMP. (WALL MOUNTED). 'Ax' DENOTES FIXTURE TYPE. CONNECTED TO AC EMERG. SYSTEM.

LIGHTING FIXTURE WITH LED OR H.I.D. OR INCANDESCENT LAMP. CEILING OR PENDANT MOUNTED. 'Ax' DENOTES FIXTURE TYPE. CONNECTED TO AC EMERG. SYSTEM.

LIGHTING FIXTURE WITH LED OR H.I.D. OR INCANDESCENT LAMP. RECESSED 'Ax' DENOTES FIXTURE TYPE. CONNECTED TO AC EMERG. SYSTEM.

RECEPTACLES & SWITCHES

DUPLEX RECEPTACLE
NOTATIONS: WP - WEATHERPROOF COVER PLATE (PER SPECS)
GFI - GROUND FAULT CIRCUIT INTERRUPTED (PER SPECS)
EWC - DENOTES WATER DRINKING FOUNTAIN

SPECIAL PURPOSE OUTLET AS NOTED ON DRAWINGS.

SPECIAL PURPOSE 3Φ OUTLET AS NOTED ON DRAWINGS.

$_{OS}$ OCCUPANCY SENSOR SWITCH

$ TOGGLE SWITCH, SINGLE POLE.

$_3$ THREE WAY SWITCH

$_M$ MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION. TOGGLE TYPE WITH PILOT LIGHT.

$_{DTCO}$ TOGGLE SWITCH. DOUBLE THROW - CENTER OFF

$_2$ TWO POLE SWITCH.

$_4$ FOUR WAY SWITCH.

$_{DM}$ DIMMER LUTRON DVSTV-453PH-WH

JUNCTION BOXES & SPECIAL DEVICES

(J) JUNCTION BOX - SIZE IN ACCORDANCE WITH N.E.C.

PB PULL BOX - SIZE AS NOTED ON DRAWINGS.

(S) SMOKE DETECTOR

CONDUIT & WIRE

CONDUIT & WIRE RUN SWITCH LEG WITH GROUND.

CONDUIT & WIRE RUN HOT, NEUTRAL, GROUND AND ISOLATED GROUND.

CONDUIT & WIRE RUN SWITCH LEG, HOT, NEUTRAL AND GROUND.

LP-1 6,8,10 'HOME RUN' TO PANELBOARD. CIRCUIT NUMBER AS INDICATED BY LETTERS & NUMERALS. THREE HOT, THREE NEUTRAL AND GROUND.

LOW VOLTAGE CABLE

MISCELLANEOUS

T TRANSFORMER, DRY TYPE, KVA & PHASE RATING AS SHOWN ON 1 LINE.

PANEL BOARD, VOLTAGE & PHASE AS SHOWN

MAIN DISTRIBUTION PANEL (MDP), VOLTAGE & PHASE AS SHOWN

DISTRIBUTION PANEL (DP), VOLTAGE & PHASE AS SHOWN

WP NON-FUSED DISCONNECT - SWITCH. WP DENOTES WEATHER PROOF.

TELEPHONE OUTLET

TELEPHONE/DATA OUTLET

(M) ELECTRIC MOTOR.

(WH) WATER HEATER

(T) THERMOSTAT

TV TV OUTLET MOUNTED @ 6' 8" AFF U.N.O.

GENERAL NOTES:

1. ALL ELECTRICAL WORK SHALL BE IN STRICT COMPLIANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, ALONG WITH ALL STATE AND LOCAL CODES & ORDINANCES.
2. EQUIPMENT, MATERIAL & DEVICES INDICATED SHALL BE AS DESCRIBED IN THE ELECTRICAL CONSTRUCTION SPECIFICATIONS. THIS DOCUMENT MUST BE REVIEWED FOR NECESSARY INFORMATION BEFORE PURCHASE OR INSTALLATION OF ANY ITEM.
3. WHEN A DETAIL IS INDICATED, A TYPICAL STANDARD DETAIL HAS BEEN FURNISHED AS A PART OF THE ELECTRICAL CONSTRUCTION SPECIFICATIONS OR A SIMILAR DETAIL HAS BEEN INCLUDED ON THE DRAWINGS INDICATED. THESE DETAILS MUST BE REVIEWED FOR NECESSARY INFORMATION BEFORE THE PURCHASE OR INSTALLATION OF THAT ITEM.
4. MINIMUM CONDUIT SIZE SHALL BE 1/2 INCH TRADE SIZE, UNLESS NOTED OTHERWISE.
5. EQUIPMENT ENCLOSURE TYPES SHALL BE SUITABLE FOR THE ENVIRONMENT IN WHICH THEY ARE INSTALLED.
6. THE INSTALLATION OF RACEWAYS, CABLE TRAYS OR OTHER ELECTRICAL EQUIPMENT MAY BECOME AN OBSTACLE TO OTHER TRADES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL ELECTRICAL WORK WITH OTHER TRADES TO AVOID INTERFERENCES.
7. ALL WIRING LARGER THAN #10 TO BE TYPE THHN STRANDED COPPER, UNLESS NOTED OTHERWISE.
8. IF REQUIRED, A FIRE ALARM SYSTEM SHALL BE DESIGNED AND INSTALLED BY A FIRE ALARM CONTRACTOR LICENSED IN THE STATE OF ARKANSAS.
9. ALL HOME RUNS OVER 75' SHALL BE INCREASED ONE SIZE. ALL HOME RUNS OVER 150' SHALL BE INCREASED TWO SIZES.
10. ALL FIREWALL & MEMBRANE PENETRATIONS SHALL BE AS PER ALL NATIONAL, STATE AND LOCAL CODES.
11. ALL GROUNDING ELECTRODES PRESENT SHALL BE BONDED TOGETHER TO FORM THE GROUNDING ELECTRODE SYSTEM AS PER NEC 250.50. THIS INCLUDES THE CONCRETE ENCASED GROUND.

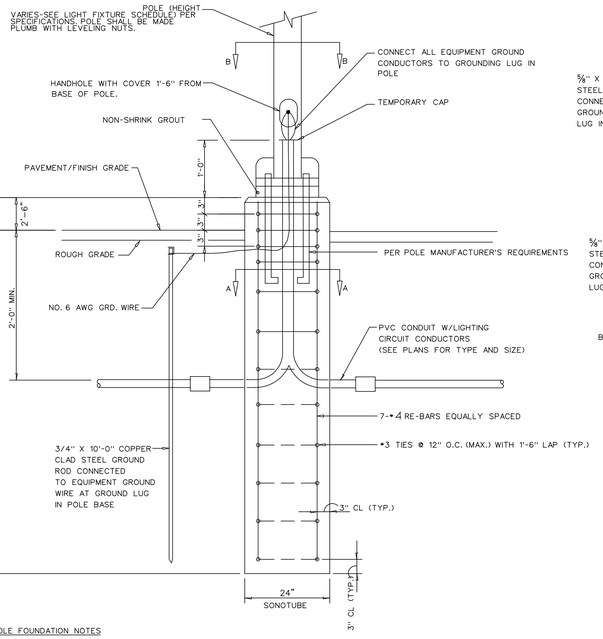
PANEL PNL

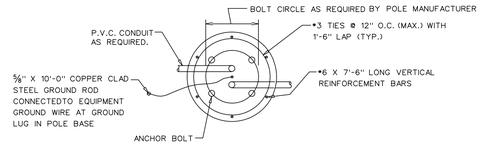
VOLTAGE (L-N):	120	ENCLOSURE TYPE:	NEMA 1
VOLTAGE (L-L):	240	MOUNTING:	SURFACE
PHASES, WIRES:	1 ϕ, 3 W	AIC RATING:	10000
MINIMUM BUS CAPACITY (A):	200 A	NOTES:	----
MAIN O.C. DEVICE (A):	200 A		

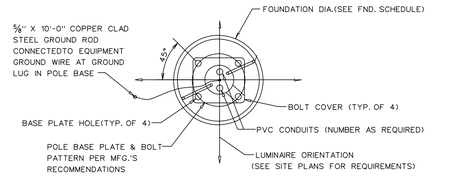
CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA) A	PHASE LOADS (VA) B	POLE	TRIIP AMPS	DESCRIPTION	CKT NO
1,3	----	20	2	0	0	2	20	----	2,4
1,3	----	20	2		0	0	2	20	----	2,4
5,7	----	20	2	0	0	2	20	----	6,8
5,7	----	20	2		0	0	2	20	----	6,8
9,11	LIGHTING PARKING LOT	20	2	1676	0	2	20	----	10,12
9,11	LIGHTING PARKING LOT	20	2		1676	0	2	20	----	10,12
13	----	20	1	0	0	1	20	----	14
12	----	20	1		0	0	1	20	----	16
17	----	20	1	0	0	1	20	----	18
19	----	20	1		0	0	1	20	----	20
21	----	20	1	0	0	1	20	----	22
23	----	20	1		0	0	1	20	----	24
25	----	20	1	0	0	1	20	----	26
27	----	20	1		0	0	1	20	----	28
29	----	20	1	0	0	1	20	----	30
31	----	20	1		0	0	1	20	----	32
33	----	20	1	0	0	1	20	----	34
35	----	20	1		0	0	2	20	----	36,38
37	----	20	1	0	0	2	20	----	36,38
39	----	20	1		0	0	2	20	----	40,42
41	----	20	1	0	0	2	20	----	40,42
				CONNECTED LOAD PHASE TOTALS (VA)					
				1676	1676				

	CONNECTED LOAD (KVA)	DEMAND FACTOR	DEMAND LOAD (KVA)
Lighting	3.4	1.25	4.2
TOTAL:	3.4		4.2
LOAD (AMPS):	14.0		17.5

DEMAND LOAD	4.2 KVA
SPARE CAPACITY	43.8 KVA
SPARE CAPACITY	182.5 AMPS
SPARE CAPACITY	91%







1 POLE BASE DETAILS
N.T.S.

POLE FOUNDATION NOTES

1. PROVIDE 3500 PSI MIN. @ 28 DAYS COMPRESSIVE STRENGTH CONCRETE.
2. CONTRACTOR SHALL NOTIFY OWNERS GEOTECHNICAL ENGINEERING CONSULTANT PRIOR TO POURING CONCRETE IF SOFT OR LOOSE SOIL LAYERS ARE ENCOUNTERED DURING THE DRILLING PROCESS.
3. CONTRACTOR SHALL REMOVE WATER, IF PRESENT IN DRILLED SHAFT HOLE BEFORE CONCRETE IS POURED.
4. FOUNDATION EXCAVATION SHALL BE BY AUGER SIZE (AS SHOWN ON SCHEDULE) IN UNDISTURBED OR PROPERLY COMPACTED FILL PER PROJECTSPECIFICATIONS.
5. FOUNDATION SHALL HAVE A MINIMUM ALLOWABLE END BEARING OF 2500 PSF
6. ALL ANCHORAGE HARDWARE SHALL BE HOT-DIPPED GALVANIZED, INCLUDING LOCK WASHERS, LEVELING NUTS AND ANCHOR BOLTS.
7. FINISH TOP OF FOUNDATION WITH 1" X 1" CHAMFER ALL AROUND.
8. VERTICAL AND HORIZONTAL REINFORCING STEEL SHALL BE EPOXY COATED AND FIELD TIED DURING INSTALLATION, WELDING NOT PERMITTED.

KE
KING ELECTRIC
96 Lillie Lane Ln
Fayetteville, AR
(479) 443-0006

REVISIONS

MARK	DESCRIPTION

NORTH

STATE OF ARKANSAS REGISTERED PROFESSIONAL ENGINEER No. 2918 ROBERT M. JONES

Mar 02, 2023

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E-2

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GENERAL NOTES:
1. NOT FOR CONSTRUCTION PURPOSES.
2. ALL CALCULATIONS CONTAIN AND ERROR FACTOR OF +/- 10%.
3. CALCULATION POINT SPACING IS 10' x 10'
4. ALL CALCULATIONS ARE IN FOOT CANDLE MEASUREMENTS
5. UNLESS OTHERWISE NOTED - ALL REFLECTANCE VALUES ARE CALCULATED USING THE DEFAULT VALUES OF: PARKING LOT = .2, WALLS = .2, CEILING = .2

*RENDERINGS ARE BAISED OFF THE HIGHEST FOOTCANDLE VALUE TO THE LOWEST

LEGEND

- FUTURE Demo concrete/ asphalt/gravel and install sod.
- Demo & sod COMPLETE
- FUTURE CONCRETE
- CURRENTLY GRAVEL

NOTES:

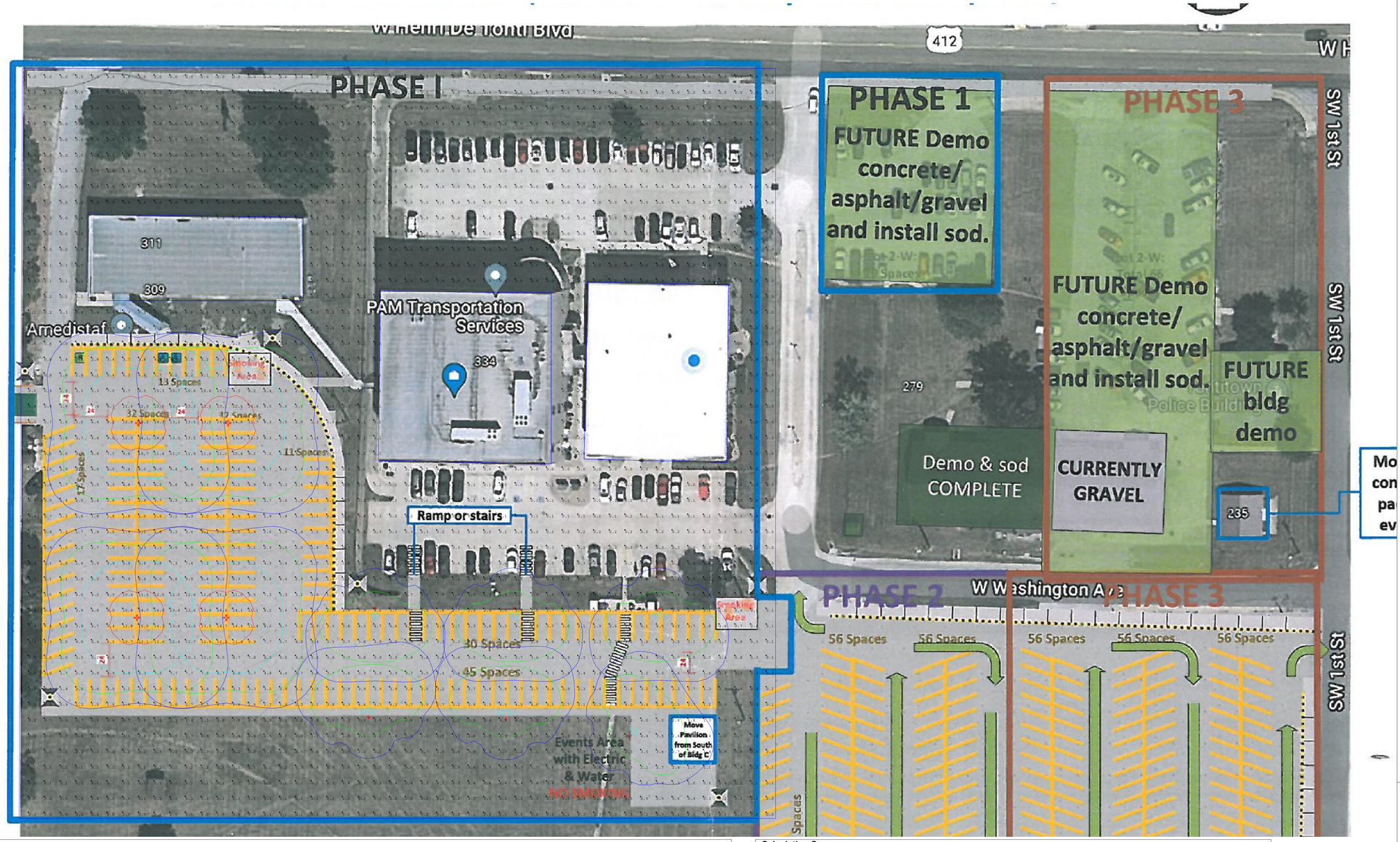
We will need adequate lighting for parking areas.

We will need adequate drainage.

Smoking areas will need structures over them.

Phase I demo & sod will need to be done after Phase I parking lot is complete.

Parking will need striping and cross walks painted.



Luminaire Schedule

Symbol	Qty	Label	Arrangement	[MANUFAC]	Description	LLF	Lum. Watts	Total Watts	Lum. Lumens
	4	B4	4 @ 90 Degrees	ATLAS LIGHTING PRODUCTS	SLPM18LFT4K	0.900	115	1840	17605
	6	B1	Single	ATLAS LIGHTING PRODUCTS	SLPM18LFT4K	0.900	115	690	17605

Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
GROUND_ Planar	Illuminance	Fc	1.70	15.2	0.0	N.A.	N.A.

Bell & McCoy
Lighting and Controls

6001 MURRAY STREET
LITTLE ROCK , AR 72209

VERSION: 1

Drawn By:
J. HENDERSON

Date:
11/14/2022

Scale:
N.T.S

Sheet Title:
Site Photometrics

Sheet No.
1

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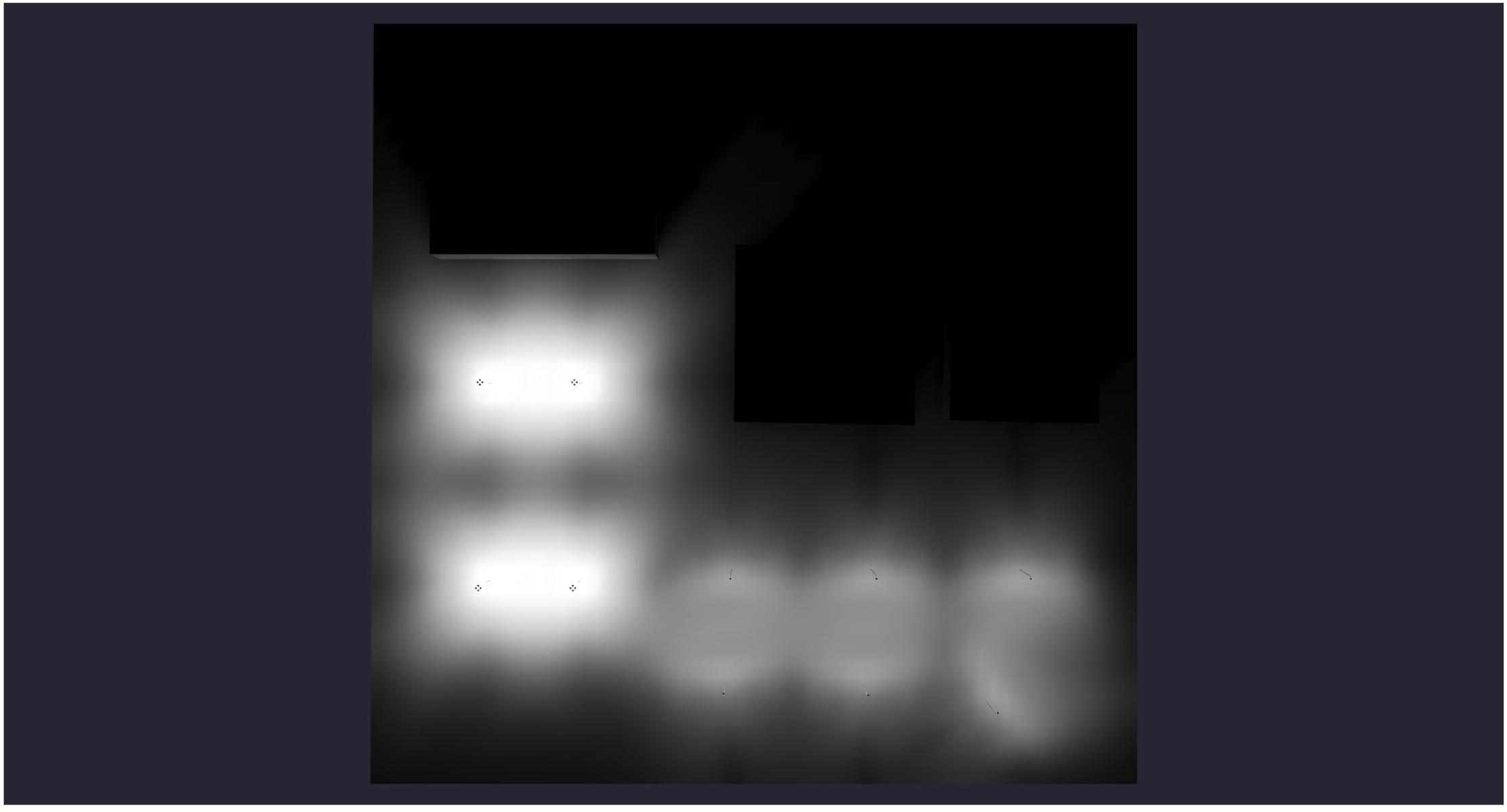

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