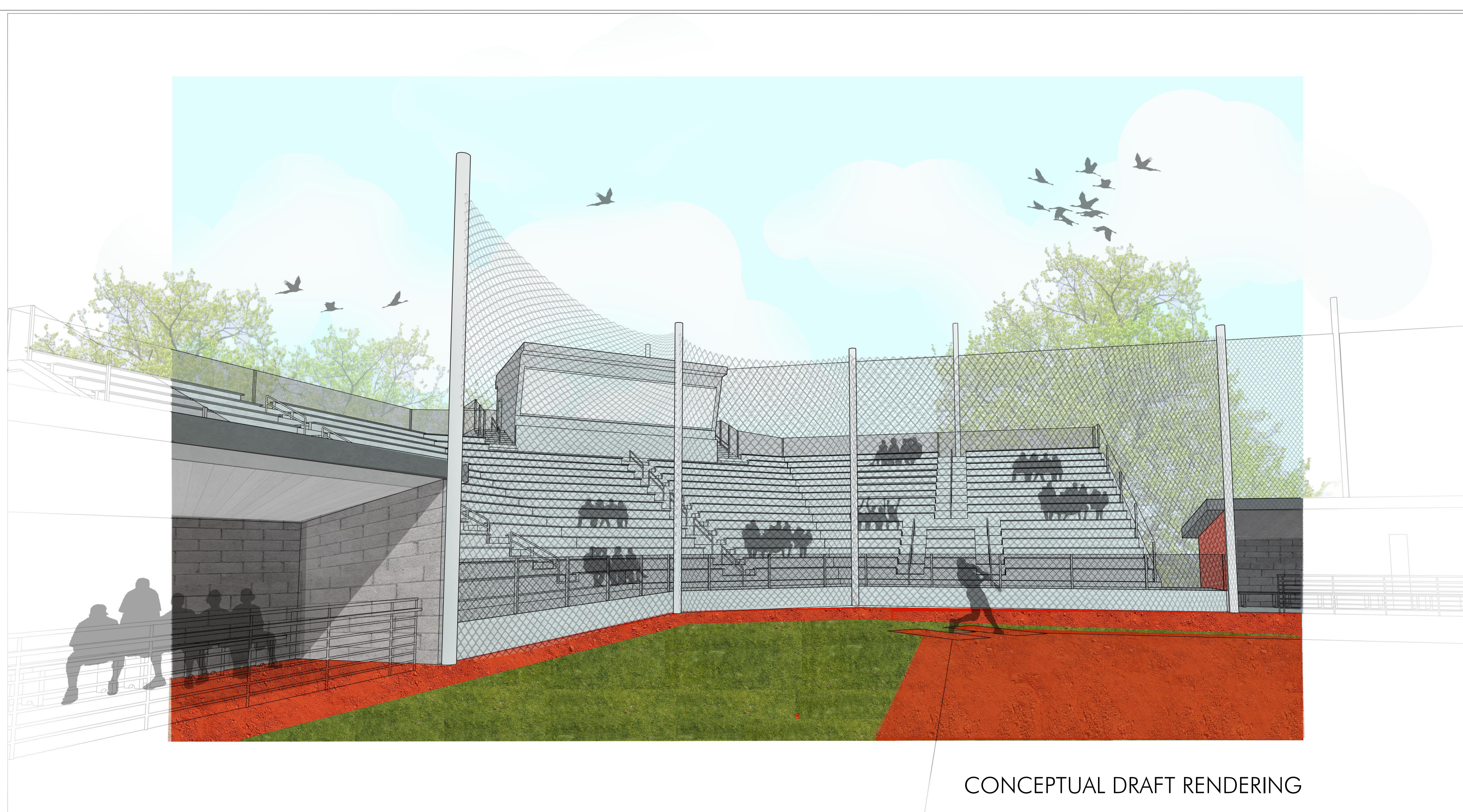


# NORTH SCOTT COMMUNITY SCHOOL DISTRICT NEW SOFTBALL COMPLEX

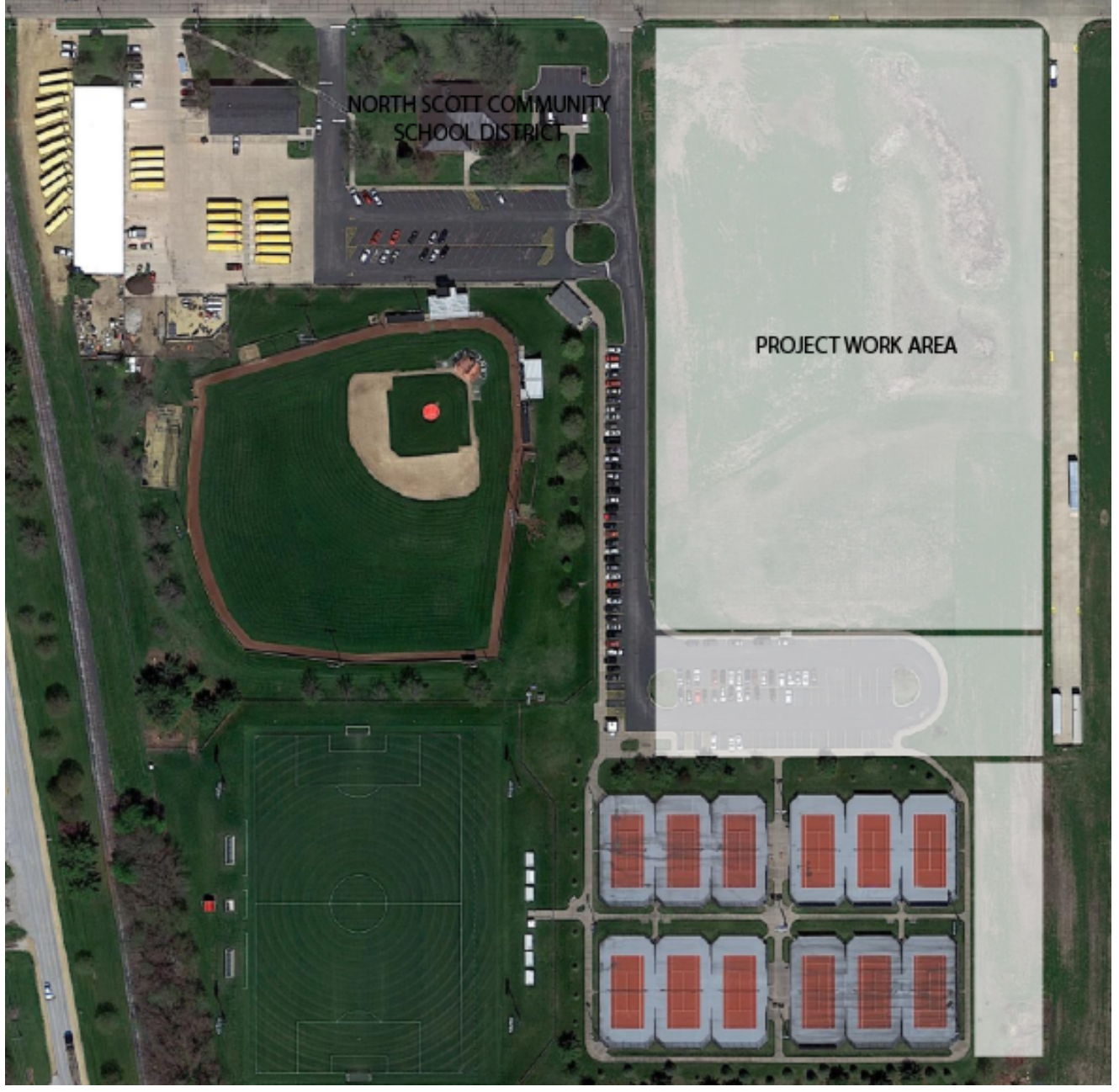
251 E IOWA ST

ELDRIDGE, IOWA 52748



CONCEPTUAL DRAFT RENDERING

SITE LOCATION MAP



LIST OF BID ALTERNATES AND SCOPE

- 1. SOUTHEAST PARKING LOT - ASPHALT
- 2. SOUTHEAST PARKING LOT - CONCRETE
- 3. CONCRETE INSTEAD OF ASPHALT AT BASE BID LOTS
- 4. PRACTICE FIELD - CLAY INFIELD/SPORTS EQUIPMENT
- 5. SYNTHETIC TURF PRIMARY SOFTBALL FIELD

SCHOOL BOARD OF DIRECTORS

Joni Dittmer, President  
Tracy Lindaman, Vice President  
Molly Bergfeld  
Glen Keppy  
John Maxwell  
Mark Pratt  
Frank Wood

SCHEDULE OF DRAWINGS

GENERAL DRAWINGS		
G-001	TITLE SHEET	
G-101	CODE INFORMATION & SAFETY REFERENCE PLANS	
G-201	SYMBOLS AND PROJECT GENERAL NOTES	
CIVIL DRAWINGS		
C-100A	EXISTING CONDITIONS AND SITE DEMOLITION	
C-100B	EXISTING CONDITIONS AND SITE DEMOLITION	
C-101A	SITE LAYOUT PLAN	
C-101B	SITE LAYOUT PLAN	
C-102	UTILITY PLAN	
C-103A	UTILITY PROFILES - STORM SEWER	
C-103B	UTILITY PROFILES - STORM SEWER	
C-104	UTILITY PROFILES - STORM SEWER	
C-105	GRADING PLAN	
C-106	EROSION CONTROL PLAN	
C-107A	DETAILS	
C-107B	DETAILS	
STRUCTURAL DRAWINGS		
S-000	GENERAL NOTES	
S-001	GENERAL NOTES	
S-100	FOUNDATION AND FRAMING - CONCESSIONS	
S-102	FOUNDATION - SOFTBALL	
S-103	FRAMING PLAN - DUGOUT	
S-200	FOUNDATION DETAILS	
S-300	MASONRY DETAILS	
S-400	STRUCTURAL DETAILS	
ARCHITECTURAL DRAWINGS		
A0001	ARCHITECTURAL SITE PLAN	
A0002	ENLARGED LANDSCAPE AND IRRIGATION PLAN AND DETAILS	
A-400	ENLARGED SOFTBALL FIELD PLAN, SECTIONS & DETAILS	
A-401	CONCESSIONS GENERAL NOTES AND DETAILS	
A-402	CONCESSION PLANS & ELEVATIONS	
A-403	CONCESSION ELEVATIONS & DETAILS	
A-404	ENLARGED DUGOUT PLANS AND DETAILS	
A-405	ENLARGED FIELD EQUIP. PLAN & DETAILS	
A-406	ENLARGED BATTING CAGE PLAN & DETAILS	
A-407	ENLARGED GRANDSTAND PLAN, SECTIONS & DETAILS	
A-408	ENLARGED PRESSBOX PLANS	
A-409	ENLARGED PRACTICE FIELD PLAN	
PLUMBING DRAWINGS		
P-000	PLUMBING LEGEND	
P-101	PLUMBING - DOMESTIC WATER - SITE PLAN	
P-103	PLUMBING - DOMESTIC WATER FIRST FLOOR - CONCESSIONS	
P-201	PLUMBING - SANITARY, VENT AND GAS - SITE PLAN	
P-203	PLUMBING - SANITARY, VENT AND GAS FIRST FLOOR - CONCESSIONS	
P-204	PLUMBING ROOF PLAN - CONCESSION	
P-300	PLUMBING SCHEDULES AND DETAILS	
P-400	PLUMBING RISER DIAGRAMS	
MECHANICAL DRAWINGS		
M-000	MECHANICAL LEGEND	
M-101	MECHANICAL SITE PLAN - HVAC	
M-102	MECHANICAL GRANDSTAND PLAN - HVAC	
M-103	MECHANICAL CONCESSION - HVAC	
M-200	MECHANICAL SCHEDULES AND DETAILS	
ELECTRICAL DRAWINGS		
E-000	ELECTRICAL LEGEND	
E-101	ELECTRICAL SITE PLAN - LIGHTING - SITE	
E-102	ELECTRICAL FIRST FLOOR PLAN - POWER - CONCESSION	
E-103	ELECTRICAL PLAN - POWER & LIGHTING - GRANDSTAND	
E-201	ELECTRICAL FIRST FLOOR PLAN - LIGHTING - CONCESSION	
E-300	ELECTRICAL SCHEDULES AND DETAILS	
EL-100	MUSCO SOFTBALL FIELD LIGHTING DRAWINGS	
EL-101	SOFTBALL LIGHTING CONTROL PANEL DETAIL	

RELEASE  
CONSTRUCTION

DATE OF ISSUE  
12.20.2022

ARCHITECT'S PROJECT NUMBER  
221124.00

LEGAT ARCHITECTS  
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NORTH  
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ELDRIDGE, IOWA 52748

ARCHITECT  
**Legat Architects**  
1515 5th Avenue, Suite 108  
Moline, IL 61265  
P: 309.517.5536  
www.legat.com  
CIVIL/MER/EP ENGINEER  
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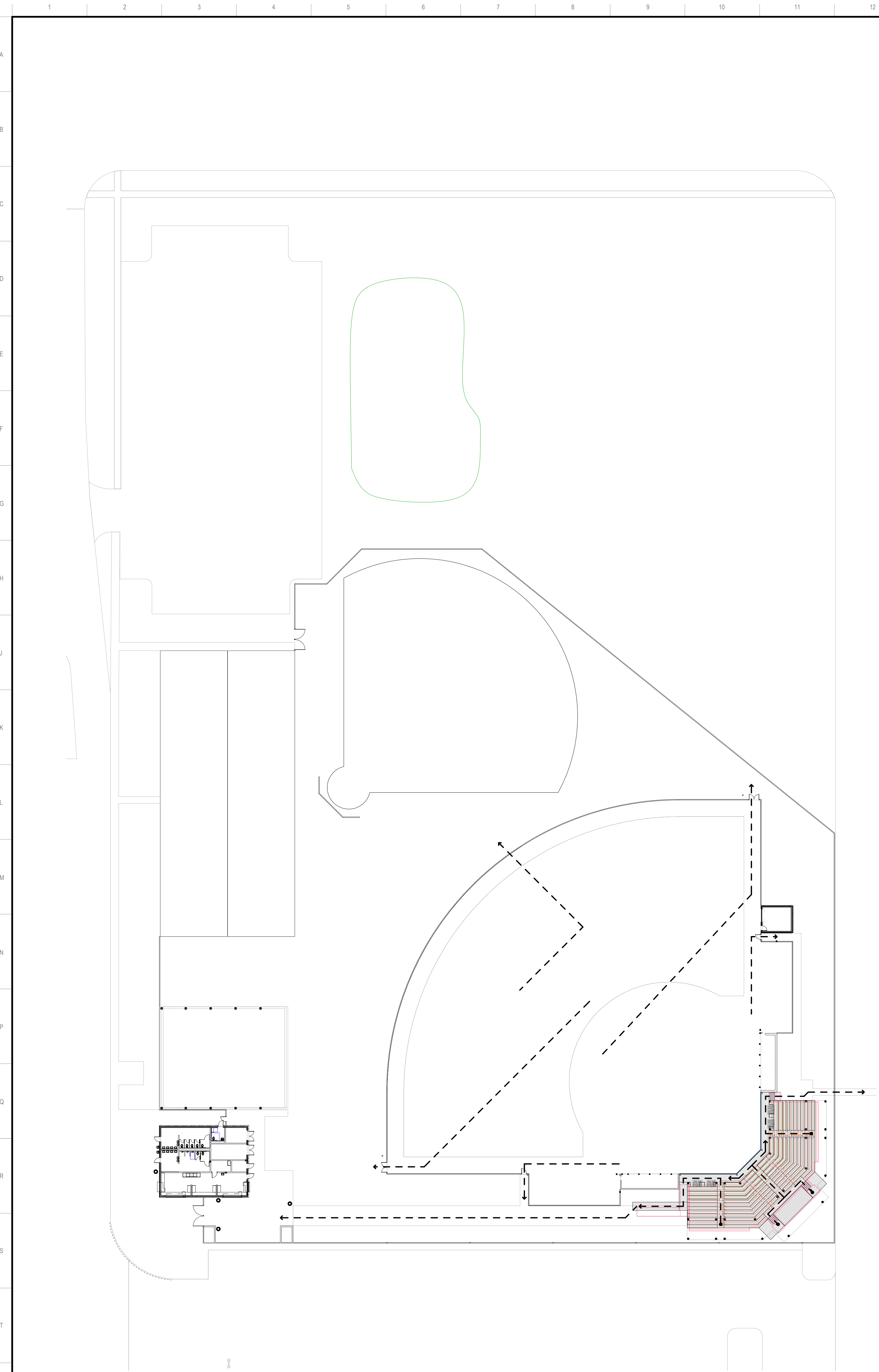
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1	ADDENDUM #1	11.30.22

PROJECT NUMBER 221124.00  
DATE OF ISSUE 12.20.2022  
DRAWN BY MC  
CHECKED BY LJ

TITLE SHEET

G-001  
CONSTRUCTION





PLUMBING FIXTURE COUNT						
A-5 ASSEMBLY OCCUPANCY (OUTDOOR ACTIVITIES OR SPORTING EVENTS) - AMUSEMENT PARKS, GRANDSTANDS AND STADIUMS						
OCCUPANT LOAD: 750	MALE OCCUPANTS: 375			FEMALE OCCUPANTS: 375		
	MALE FIXTURES REQUIRED	MALE REQUIRED	MALE ACTUAL	FEMALE FIXTURES REQUIRED	FEMALE REQUIRED	FEMALE ACTUAL
WATER CLOSET	1: 1-100 2: 101-200 3: 201-400	3	2*	1: 1-100 2: 101-200 4: 201-300 5: 301-500	5	5
URINALS*	1: 1-100 2: 101-200 3: 201-400	3	4	--	--	--
LAVATORIES	1: 1-100 2: 201-400	2	4	1: 1-100 2: 101-200 4: 201-300 5: 301-500	5	5
BATHTUB/SHOWERS	--	--	--	--	--	--
DRINKING FOUNTAINS	1: 1-100					
SERVICE SINKS	1 SERVICE SINK OR LAUNDRY TRAY					
GENERAL NOTES *ONE URINAL ADDED, ONE WATER CLOSET REMOVED PER NOTE 4 IN THE UNIFORM PLUMBING CODE, TABLE 422.1						

SAFETY REFERENCE SYMBOLS & ABBREVIATIONS	
ROOM NAME 101 EXIT # ACT CALC EGRESS ROUTE EXIT PATH ID EGRESS ROUTE IDENTIFICATION 1 - HOUR FIRE RESISTANCE RATING 2 - HOUR FIRE RESISTANCE RATING 3 - HOUR FIRE RESISTANCE RATING 4 - HOUR FIRE RESISTANCE RATING	ROOM IDENTIFICATION NUMBER PRIMARY EXIT NUMBER OCCUPANT LOAD PER MAXIMUM FLOOR AREA ALLOWANCE ACTUAL/ANTICIPATED OCCUPANT LOAD DOOR EXIT IDENTIFICATION NUMBER DOOR CALCULATED EXIT CAPACITY DOOR ACTUAL EXIT CAPACITY EGRESS ROUTE IDENTIFICATION 1 - HOUR FIRE RESISTANCE RATING 2 - HOUR FIRE RESISTANCE RATING 3 - HOUR FIRE RESISTANCE RATING 4 - HOUR FIRE RESISTANCE RATING
STAND PIPE AED AUTOMATED EXTERNAL DEFIBRILLATOR FAAP FIRE ALARM ANNUNCIATOR PANEL KB KNOX BOX E EMERGENCY ELECTRICAL SHUT OFF W EMERGENCY WATER SHUT OFF FEC FULLY RECESSED FIRE EXTINGUISHER CABINET FEC SEMI-RECESSED FIRE EXTINGUISHER CABINET W/ BLANKET FEC SURFACE MOUNTED FIRE EXTINGUISHER CABINET FBC SURFACE MOUNTED FIRE BLANKET CABINET	AREA NOT IN CONTRACT SPRAY FIREPROOFING SPRINKLERED FACFP FIRE ALARM CONTROL PANEL GAP GENERATOR ANNUNCIATOR PANEL TR TRANSFORMER FOR ELECTRICAL SERVICE G EMERGENCY GAS SHUT OFF GSO GENERATOR REMOTE SHUT OFF FECB SEMI-RECESSED FIRE EXTINGUISHER CABINET W/ BLANKET FECB SEMI-RECESSED FIRE EXTINGUISHER CABINET W/ BLANKET FECB SEMI-RECESSED FIRE EXTINGUISHER CABINET W/ BLANKET FE WALL MOUNTED FIRE EXTINGUISHER

BUILDING DATA - NEW CONSTRUCTION	
APPLICABLE CODE	IBC 2015
USE GROUP	A-5
CONSTRUCTION TYPE (TABLE 601)	TYPE IIB
ALLOWABLE HEIGHT (TABLE 504.3)	55 FEET
ACTUAL HEIGHT	19'-0"
ALLOWABLE STORIES ABOVE GRADE (TABLE 504.4)	UL
ACTUAL STORIES ABOVE GRADE	1
ALLOWABLE AREA (TABLE 506.2)	UL
AREA INCREASE DUE TO FRONTAGE (506.3)	N/A
MAXIMUM ALLOWABLE AREA	UL
NEW BUILDING FOOTPRINT	2,340 SF
EXISTING BUILDING FOOTPRINT	N/A
TOTAL BUILDING AREA (EXISTING + NEW)	2,340 SF
AUTOMATIC SPRINKLER SYSTEM REQUIREMENTS	NO
FIRE-RESISTANCE RATINGS FOR BUILDING ELEMENTS	
BUILDING ELEMENT	RATING
UL APPROVED DESIGN NO.	
PRIMARY STRUCTURAL FRAME	
BEAMS	0 HR
COLUMNS	0 HR
BEARING WALLS	
EXTERIOR	0 HR
INTERIOR	0 HR
FLOOR CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0 HR
ROOF CONSTRUCTION AND ASSOCIATED SECONDARY MEMBERS	0 HR
EXTERIOR WALL FIRE SEPARATION DISTANCE (TABLE 602)	1-HOUR: < 5' / 1-HOUR: 5' ≥ X < 10' 0-HOUR: 10' ≥ X < 30' / 0-HOUR: ≥ 30'
MEANS OF EGRESS - NEW CONSTRUCTION	
APPLICABLE CODE	NON-SPRINKLED IBC 2015
DOOR/CORRIDOR EGRESS WIDTH (1005.3.2)	0.2/PERSON
STAIR EGRESS WIDTH (1005.3.1)	0.3/PERSON
MAX. LENGTH OF EXIT ACCESS TRAVEL (TABLE 1017.2)	200 FEET
MAX. LENGTH OF COMMON PATH EGRESS TRAVEL (TABLE 1006.2.1)	75 FEET
MAX. LENGTH OF DEAD END CORRIDORS (TABLE 1020.4)	20 FEET
MINIMUM CORRIDOR WIDTH (TABLE 1020.2)	44 INCHES
APPLICABLE CODES - NEW CONSTRUCTION	
• 2015 INTERNATIONAL BUILDING CODE (IBC) • 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) • 2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC) • INTERNATIONAL FIRE CODE • IOWA MECHANICAL CODE (2015 INTERNATIONAL MECHANICAL CODE WITH AMENDMENTS) • NFPA 101 LIFE SAFETY CODE, 2012 EDITION • IOWA PLUMBING CODE (2015 UNIFORM PLUMBING CODE WITH AMENDMENTS)	
SAFETY REFERENCE NOTES	
TOTAL OCCUPANT LOAD (GRANDSTANDS) = 750 (AUDIENCE CAPACITY) + 12 (PRESS BOX MAX CAPACITY) = 762 TOTAL OCCUPANT LOAD (CONCESSION STAND) = 4 (STAFF) + 12 (GUESTS) = 20	

OCCUPANT LOAD SCHEDULE					
ROOM ID NUMBER	ROOM NAME	AREA	SF OCCUPANT	CALCULATED OCCUPANT LOAD	ACTUAL OCCUPANT LOAD
100	CONCESSIONS	712 SF	200	4	0
100	DUGOUT	46478 SF	0		0
101	TRAINER	63 SF	300	1	0
102	CUSTODIAL	80 SF	300	1	0
103	MEN'S RESTROOM	364 SF	300	2	0
104	SOFTBALL STORAGE	295 SF	300	1	0
105	FIELD EQUIPMENT	280 SF	0		0
106	WOMEN'S RESTROOM	373 SF	300	2	0
107	FAMILY RESTROOM	67 SF	300	1	0
108	TENNIS STORAGE	127 SF	300	1	0
110	ROOM	17 SF	0		0
111	ROOM	8 SF	0		0
TOTAL OCCUPANCY			13	0	0

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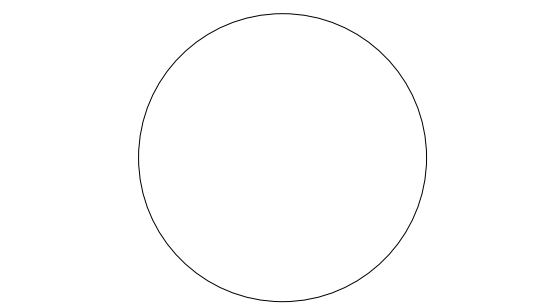
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PROJECT NUMBER 221124.00  
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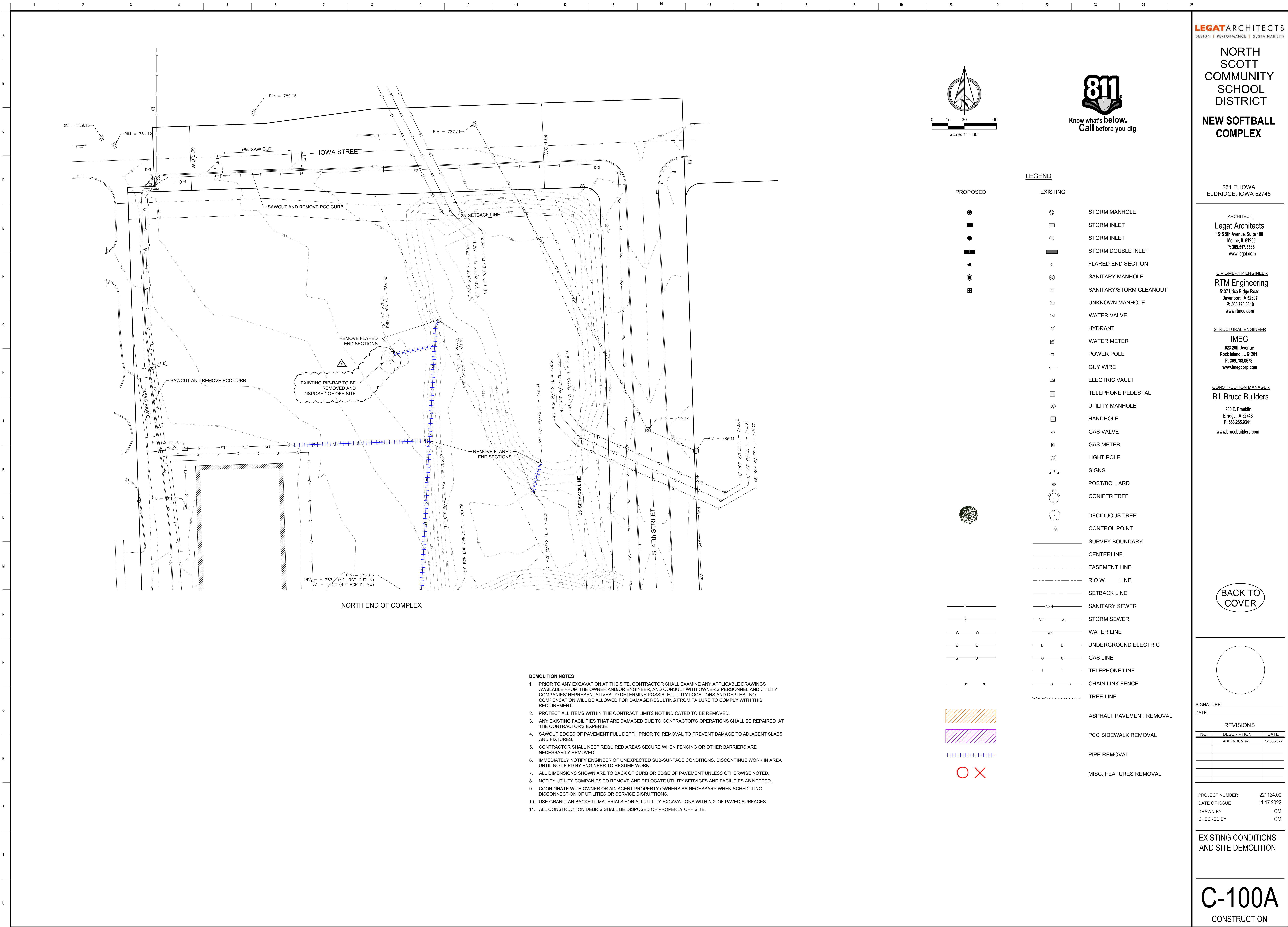
CODE INFORMATION &  
SAFETY REFERENCE  
PLANS

G-101  
CONSTRUCTION

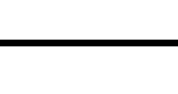
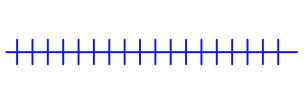
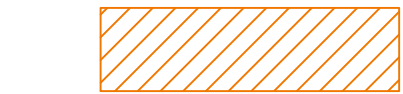


ABBREVIATIONS		ABBREVIATIONS		ABBREVIATIONS		ABBREVIATIONS		ABBREVIATIONS		GENERAL NOTES		GENERAL CONSTRUCTION / RENOVATION NOTES		GENERAL FINISH NOTES		DRAWING TITLE KEY	
ABB	DESCRIPTION	ABB	DESCRIPTION	ABB	DESCRIPTION	ABB	DESCRIPTION	ABB	DESCRIPTION	ABB	DESCRIPTION	ABB	DESCRIPTION	ABB	DESCRIPTION	ABB	DESCRIPTION
AC	AIR CONDITIONING	EJD	ELECTRIC HAIR DRYER	LTL	LINTEL	RAL	ROOF LADDER	VDB	VISUAL DISPLAY BOARD	1.	ALL WORK SHALL BE COMPLIANT WITH THE CODES, ORDINANCES, AND REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION OVER THE PROJECT LOCATION.	1.	AFTER REMOVAL OF ITEMS IDENTIFIED TO BE REMOVED, CLEAN AND REPAIR THE EXISTING SURFACES TO REMAIN TO MATCH THE CONSTRUCTION MATERIALS AND METHODS, FINISHES TEXTURE, PATTERN, COLOR AND SHEEN OF THE ADJACENT SURFACES TO REMAIN. PATCH, CLEAN, PREPARE, PAINT, ETC. EXISTING SURFACES AS REQUIRED.	1.	SIGHT-EXPOSED SURFACES OF EXISTING PARTITIONS AND SOFFITS SHALL BE FINISH PAINTED U.N.O.		
ABV	ABOVE	EJ	EXPANSION JOINT	LVR	LOUVER	RB	RUBBER BASE	VEND	VENDING MACHINE	2.	ALL NEW CONSTRUCTION SHALL BE PRIME AND FINISH PAINTED UNLESS MATERIALS ARE PRE-FINISHED. REFER TO THE FINISH PLANS AND THE PROJECT MANUAL FOR ADDITIONAL INFORMATION. NEW PARTITIONS AND SOFFITS ARE TO BE PRIME PAINTED FOR FULL HEIGHT OF PARTITION OR SOFFIT. SIGHT-EXPOSED SURFACES OF NEW PARTITIONS AND SOFFITS ARE TO BE FINISH PAINTED.	2.	WHERE EXISTING EQUIPMENT IS REMOVED AND NEW EQUIPMENT IS SMALLER AND INSTALLED IN THE SAME LOCATION, CLEAN AND REPAIR THE SIGHT-EXPOSED SURFACES TO REMAIN TO MATCH THE CONSTRUCTION MATERIALS AND METHODS, FINISHED TEXTURE, PATTERN, AND COLOR OF THE ADJACENT SURFACES TO REMAIN. PATCH, CLEAN, PREPARE, PAINT, ETC. EXISTING SURFACES AS REQUIRED.	2.	VIEW NAME 1/8" = 1'-0"		
AC	ARCHITECTURAL CONCRETE	EL / ELEV	ELEVATION	LV	LUXURY VINYL TILE	RBST	RUBBER STAIR TREAD	VERT	VERTICAL	3.	WHERE CONFLICTS EXIST WITHIN OR BETWEEN PARTS OF THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND APPLICABLE STANDARDS, CODES, ORDINANCES, AND REGULATIONS THE MORE STRINGENT OR HIGH QUALITY OR GREATER QUALITY REQUIREMENT(S) SHALL APPLY. LARGE-SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL-SCALE DRAWINGS; FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS; AND NOTED MATERIALS TAKE PRECEDENCE OVER GRAPHIC REPRESENTATION AND NOTED MATERIALS TAKE PRECEDENCE						





- DEMOLITION NOTES**
1. PRIOR TO ANY EXCAVATION AT THE SITE, CONTRACTOR SHALL EXAMINE ANY APPLICABLE DRAWINGS AVAILABLE FROM THE OWNER AND/OR ENGINEER, AND CONSULT WITH OWNER'S PERSONNEL AND UTILITY COMPANIES' REPRESENTATIVES TO DETERMINE POSSIBLE UTILITY LOCATIONS AND DEPTHS. NO COMPENSATION WILL BE ALLOWED FOR DAMAGE RESULTING FROM FAILURE TO COMPLY WITH THIS REQUIREMENT.
  2. PROTECT ALL ITEMS WITHIN THE CONTRACT LIMITS NOT INDICATED TO BE REMOVED.
  3. ANY EXISTING FACILITIES THAT ARE DAMAGED DUE TO CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
  4. SAWCUT EDGES OF PAVEMENT FULL DEPTH PRIOR TO REMOVAL TO PREVENT DAMAGE TO ADJACENT SLABS AND FIXTURES.
  5. CONTRACTOR SHALL KEEP REQUIRED AREAS SECURE WHEN FENCING OR OTHER BARRIERS ARE NECESSARILY REMOVED.
  6. IMMEDIATELY NOTIFY ENGINEER OF UNEXPECTED SUB-SURFACE CONDITIONS. DISCONTINUE WORK IN AREA UNTIL NOTIFIED BY ENGINEER TO RESUME WORK.
  7. ALL DIMENSIONS SHOWN ARE TO BACK OF CURB OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
  8. NOTIFY UTILITY COMPANIES TO REMOVE AND RELOCATE UTILITY SERVICES AND FACILITIES AS NEEDED.
  9. COORDINATE WITH OWNER OR ADJACENT PROPERTY OWNERS AS NECESSARY WHEN SCHEDULING DISCONNECTION OF UTILITIES OR SERVICE DISRUPTIONS.
  10. USE GRANULAR BACKFILL MATERIALS FOR ALL UTILITY EXCAVATIONS WITHIN 2' OF PAVED SURFACES.
  11. ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED OF PROPERLY OFF-SITE.



- LEGEND**
- PROPOSED**
- STORM MANHOLE
  - STORM INLET
  - STORM INLET
  - STORM DOUBLE INLET
  - ▲ FLARED END SECTION
  - SANITARY MANHOLE
  - SANITARY/STORM CLEANOUT
  - UNKNOWN MANHOLE
  - ▲ WATER VALVE
  - HYDRANT
  - WATER METER
  - ▲ POWER POLE
  - GUY WIRE
  - ELECTRIC VAULT
  - TELEPHONE PEDESTAL
  - UTILITY MANHOLE
  - HANDHOLE
  - GAS VALVE
  - GAS METER
  - ▲ LIGHT POLE
  - SIGNS
  - ▲ POST/BOLLARD
  - CONIFER TREE
  - DECIDUOUS TREE
  - ▲ CONTROL POINT
  - SURVEY BOUNDARY
  - CENTERLINE
  - EASEMENT LINE
  - R.O.W. LINE
  - SETBACK LINE
  - SAN— SANITARY SEWER
  - ST— ST— STORM SEWER
  - Wx— WATER LINE
  - E— E— UNDERGROUND ELECTRIC
  - G— G— GAS LINE
  - T— T— TELEPHONE LINE
  - CHAIN LINK FENCE
  - TREE LINE
  - ASPHALT PAVEMENT REMOVAL
  - PCC SIDEWALK REMOVAL
  - PIPE REMOVAL
  - MISC. FEATURES REMOVAL
- EXISTING**
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  - STORM INLET
  - STORM DOUBLE INLET
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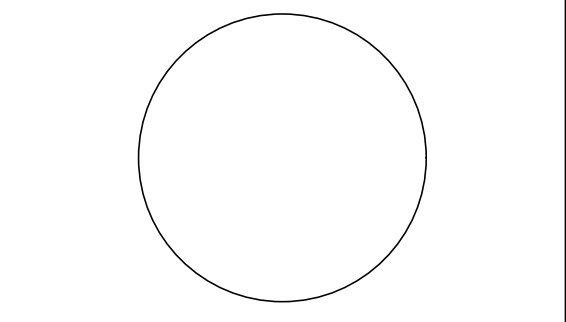
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	ADDENDUM #2	12.06.2022

PROJECT NUMBER 221124.00  
DATE OF ISSUE 11.17.2022  
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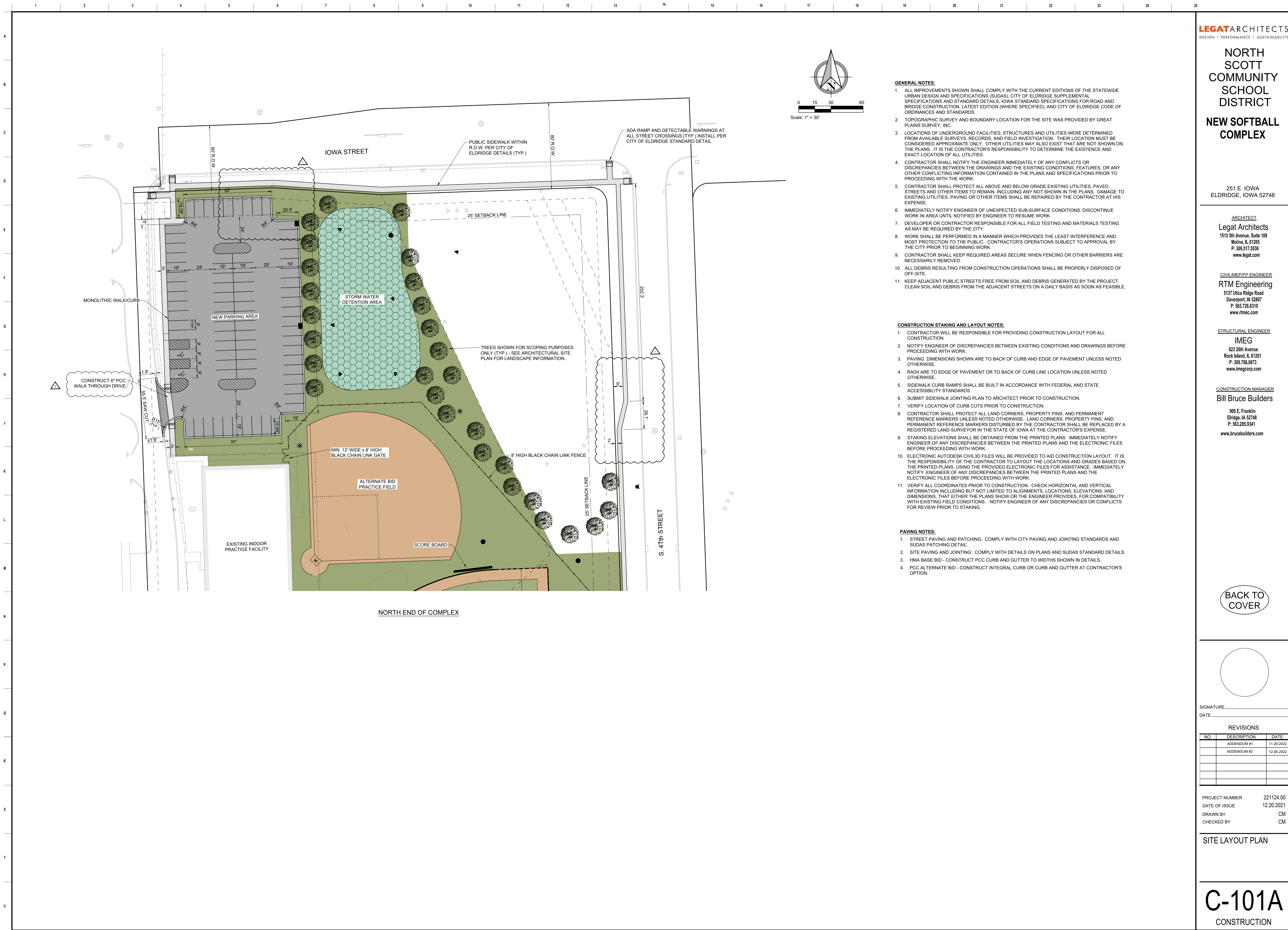
**EXISTING CONDITIONS  
AND SITE DEMOLITION**

**C-100A**  
CONSTRUCTION









- GENERAL NOTES:**
- ALL IMPROVEMENTS SHOWN SHALL COMPLY WITH THE CURRENT EDITIONS OF THE STATEWIDE URBAN DESIGN AND SPECIFICATIONS (SUDAS), CITY OF ELDREDGE SUPPLEMENTAL SPECIFICATIONS AND STANDARD DETAILS, IOWA STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION (WHERE SPECIFIED), AND CITY OF ELDREDGE CODE OF ORDINANCES AND STANDARDS.
  - TOPOGRAPHIC SURVEY AND BOUNDARY LOCATION FOR THE SITE WAS PROVIDED BY GREAT PLAINS SURVEY, INC.
  - LOCATIONS OF UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES WERE DETERMINED FROM AVAILABLE SURVEYS, RECORDS, AND FIELD INVESTIGATION. THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. OTHER UTILITIES MAY ALSO EXIST THAT ARE NOT SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL UTILITIES.
  - CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS OR DISCREPANCIES BETWEEN THE DRAWINGS AND THE EXISTING CONDITIONS, FEATURES, OR ANY OTHER CONFLICTING INFORMATION CONTAINED IN THE PLANS AND SPECIFICATIONS PRIOR TO PROCEEDING WITH THE WORK.
  - CONTRACTOR SHALL PROTECT ALL ABOVE AND BELOW GRADE EXISTING UTILITIES, PAVED STREETS AND OTHER ITEMS TO REMAIN, INCLUDING ANY NOT SHOWN IN THE PLANS. DAMAGE TO EXISTING UTILITIES, PAVING OR OTHER ITEMS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
  - IMMEDIATELY NOTIFY ENGINEER OF UNEXPECTED SUB-SURFACE CONDITIONS. DISCONTINUE WORK IN AREA UNTIL NOTIFIED BY ENGINEER TO RESUME WORK.
  - DEVELOPER OR CONTRACTOR RESPONSIBLE FOR ALL FIELD TESTING AND MATERIALS TESTING AS MAY BE REQUIRED BY THE CITY.
  - WORK SHALL BE PERFORMED IN A MANNER WHICH PROVIDES THE LEAST INTERFERENCE AND MOST PROTECTION TO THE PUBLIC. CONTRACTOR'S OPERATIONS SUBJECT TO APPROVAL BY THE CITY PRIOR TO BEGINNING WORK.
  - CONTRACTOR SHALL KEEP REQUIRED AREAS SECURE WHEN FENCING OR OTHER BARRIERS ARE NECESSARILY REMOVED.
  - ALL DEBRIS RESULTING FROM CONSTRUCTION OPERATIONS SHALL BE PROPERLY DISPOSED OF OFF-SITE.
  - KEEP ADJACENT PUBLIC STREETS FREE FROM SOIL AND DEBRIS GENERATED BY THE PROJECT. CLEAN SOIL AND DEBRIS FROM THE ADJACENT STREETS ON A DAILY BASIS AS SOON AS FEASIBLE.

- CONSTRUCTION STAKING AND LAYOUT NOTES:**
- CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING CONSTRUCTION LAYOUT FOR ALL CONSTRUCTION.
  - NOTIFY ENGINEER OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND DRAWINGS BEFORE PROCEEDING WITH WORK.
  - PAVING DIMENSIONS SHOWN ARE TO BACK OF CURB AND EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.
  - RADII ARE TO EDGE OF PAVEMENT OR TO BACK OF CURB LINE LOCATION UNLESS NOTED OTHERWISE.
  - SIDEWALK CURB RAMPS SHALL BE BUILT IN ACCORDANCE WITH FEDERAL AND STATE ACCESSIBILITY STANDARDS.
  - SUBMIT SIDEWALK JOINTING PLAN TO ARCHITECT PRIOR TO CONSTRUCTION.
  - VERIFY LOCATION OF CURB CUTS PRIOR TO CONSTRUCTION.
  - CONTRACTOR SHALL PROTECT ALL LAND CORNERS, PROPERTY PINS, AND PERMANENT REFERENCE MARKERS UNLESS NOTED OTHERWISE. LAND CORNERS, PROPERTY PINS, AND PERMANENT REFERENCE MARKERS DISTURBED BY THE CONTRACTOR SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR IN THE STATE OF IOWA AT THE CONTRACTOR'S EXPENSE.
  - STAKING ELEVATIONS SHALL BE OBTAINED FROM THE PRINTED PLANS. IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE PRINTED PLANS AND THE ELECTRONIC FILES BEFORE PROCEEDING WITH WORK.
  - ELECTRONIC AUTODESK CIVIL3D FILES WILL BE PROVIDED TO AID CONSTRUCTION LAYOUT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LAYOUT THE LOCATIONS AND GRADES BASED ON THE PRINTED PLANS, USING THE PROVIDED ELECTRONIC FILES FOR ASSISTANCE. IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN THE PRINTED PLANS AND THE ELECTRONIC FILES BEFORE PROCEEDING WITH WORK.
  - VERIFY ALL COORDINATES PRIOR TO CONSTRUCTION. CHECK HORIZONTAL AND VERTICAL INFORMATION INCLUDING BUT NOT LIMITED TO ALIGNMENTS, LOCATIONS, ELEVATIONS, AND DIMENSIONS, THAT EITHER THE PLANS SHOW OR THE ENGINEER PROVIDES. FOR COMPATIBILITY WITH EXISTING FIELD CONDITIONS. NOTIFY ENGINEER OF ANY DISCREPANCIES OR CONFLICTS FOR REVIEW PRIOR TO STAKING.

- PAVING NOTES:**
- STREET PAVING AND PATCHING: COMPLY WITH CITY PAVING AND JOINTING STANDARDS AND SUDAS PATCHING DETAIL.
  - SITE PAVING AND JOINTING: COMPLY WITH DETAILS ON PLANS AND SUDAS STANDARD DETAILS.
  - HMA BASE BID - CONSTRUCT PCC CURB AND GUTTER TO WIDTHS SHOWN IN DETAILS.
  - PCC ALTERNATE BID - CONSTRUCT INTEGRAL CURB OR CURB AND GUTTER AT CONTRACTOR'S OPTION.

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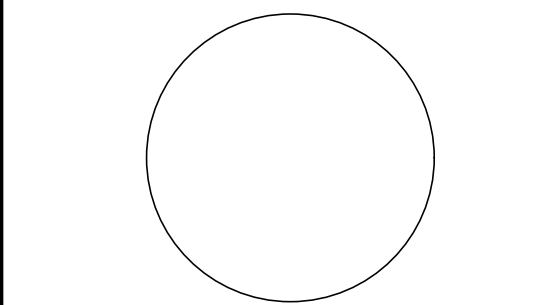
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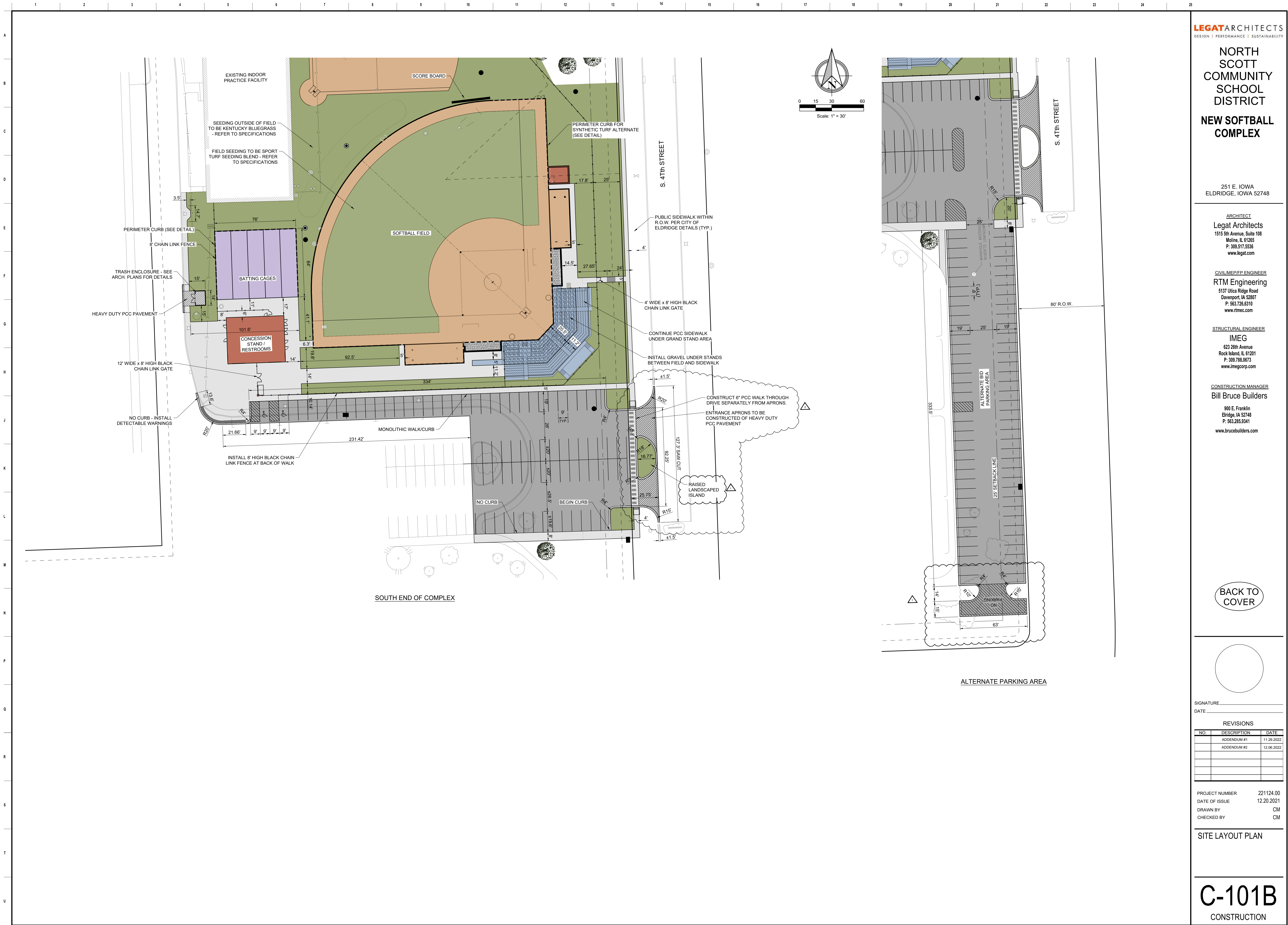
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SITE LAYOUT PLAN

**C-101A**  
CONSTRUCTION





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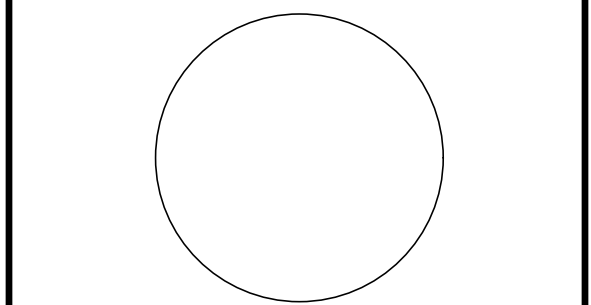
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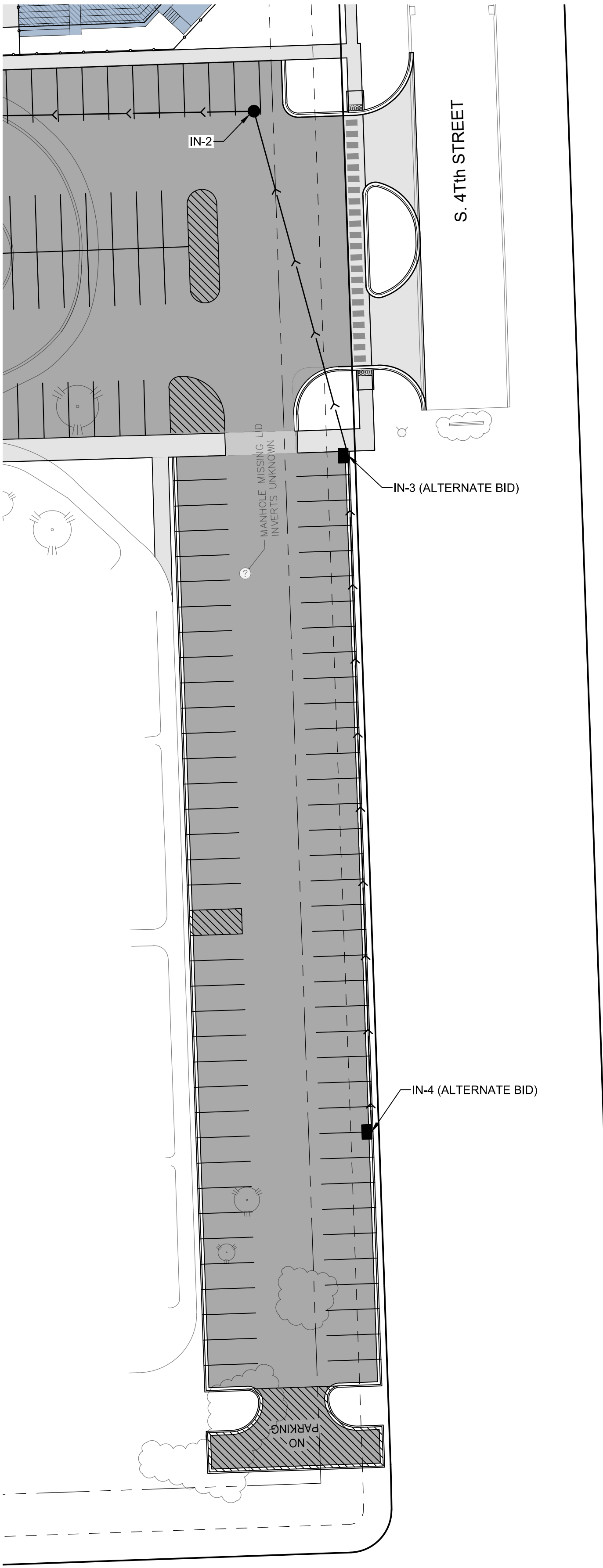
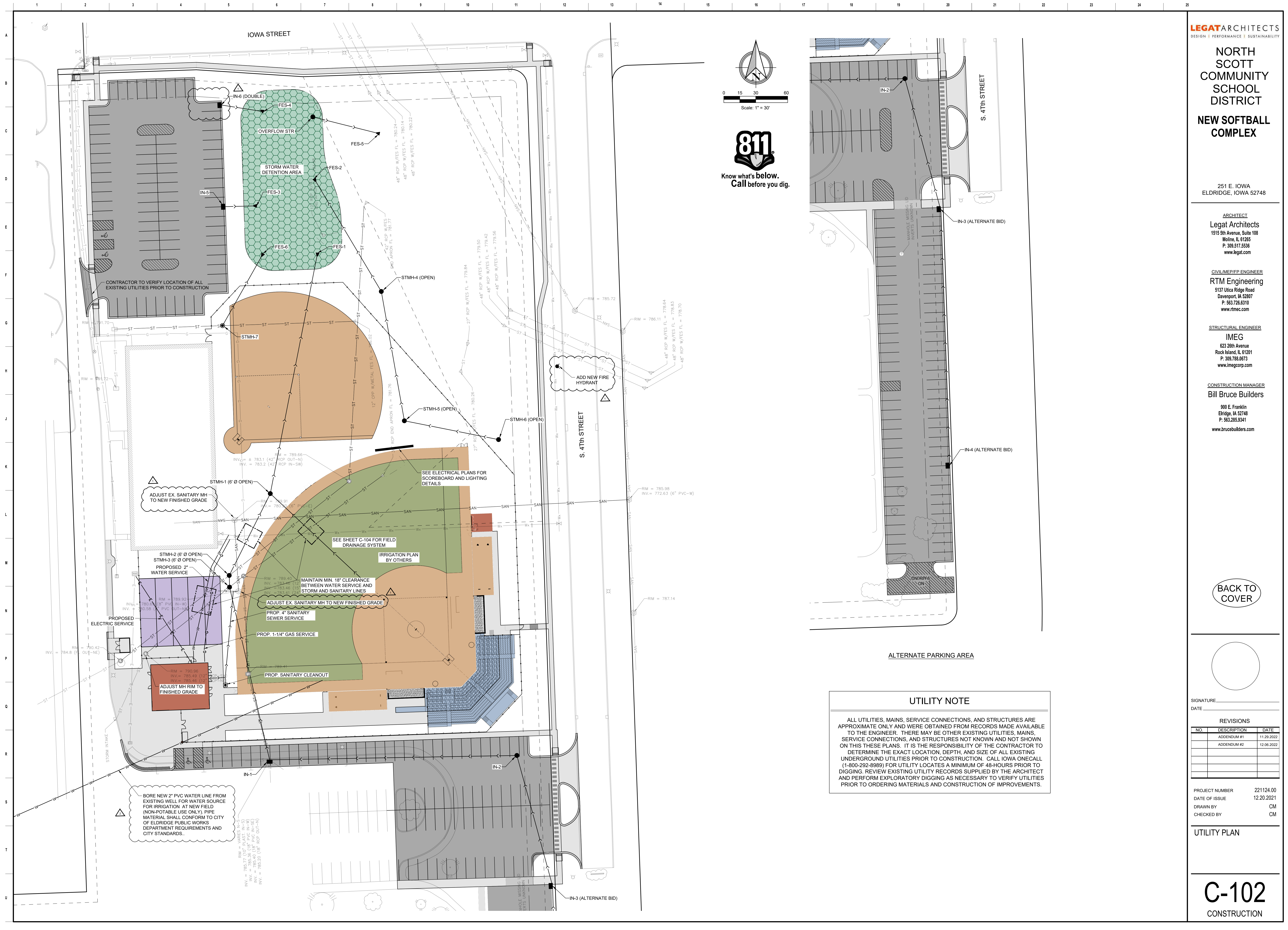
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SITE LAYOUT PLAN

C-101B  
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**UTILITY NOTE**

ALL UTILITIES, MAINS, SERVICE CONNECTIONS, AND STRUCTURES ARE APPROXIMATE ONLY AND WERE OBTAINED FROM RECORDS MADE AVAILABLE TO THE ENGINEER. THERE MAY BE OTHER EXISTING UTILITIES, MAINS, SERVICE CONNECTIONS, AND STRUCTURES NOT KNOWN AND NOT SHOWN ON THIS THESE PLANS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATION, DEPTH, AND SIZE OF ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. CALL IOWA ONECALL (1-800-292-8989) FOR UTILITY LOCATES A MINIMUM OF 48-HOURS PRIOR TO DIGGING. REVIEW EXISTING UTILITY RECORDS SUPPLIED BY THE ARCHITECT AND PERFORM EXPLORATORY DIGGING AS NECESSARY TO VERIFY UTILITIES PRIOR TO ORDERING MATERIALS AND CONSTRUCTION OF IMPROVEMENTS.

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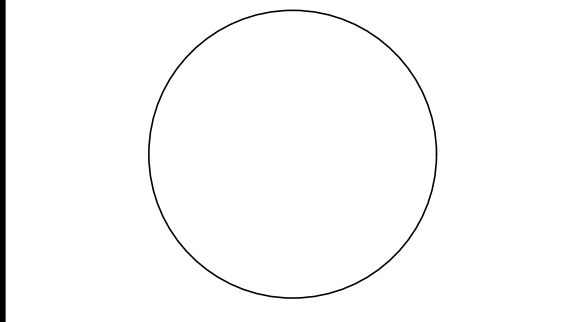
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UTILITY PLAN



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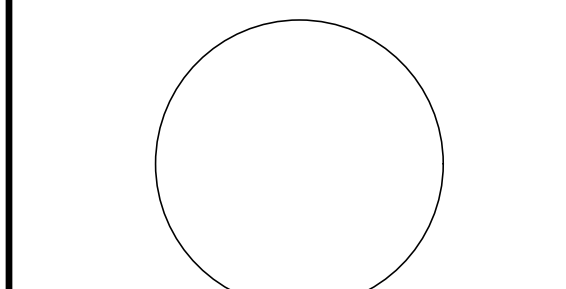
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UTILITY PROFILES  
STORM SEWER

C-103A  
CONSTRUCTION

UTILITY NOTES:

- THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ELDRIDGE CODE OF ORDINANCES, CURRENT EDITION OF STATEWIDE URBAN STANDARDS AND SPECIFICATIONS (SUDAS), CITY OF ELDRIDGE STANDARD SPECIFICATIONS AND DETAILED DRAWINGS, AND CURRENT EDITION OF STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION (IOWA DOT) WHERE REFERENCED.
- LOCATION OF UNDERGROUND UTILITIES SHOULD BE CONSIDERED AS APPROXIMATE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT EACH UTILITY COMPANY AND IOWA ONE-CALL FOR LOCATION OF EXISTING LINES IN OR NEAR THE CONSTRUCTION AREA. CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS BETWEEN THE DRAWINGS AND THE EXISTING FEATURES.
- CONTRACTOR SHALL PROTECT ALL ABOVE AND BELOW GRADE EXISTING UTILITIES, PAVED STREETS AND OTHER ITEMS TO REMAIN, INCLUDING ANY NOT SHOWN IN THE PLANS. CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY MAJOR CONFLICTS BETWEEN THE DRAWING AND THE EXISTING FEATURES. DAMAGE TO EXISTING UTILITIES, PAVING OR OTHER ITEMS SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE.
- NOTIFY UTILITY COMPANIES TO REMOVE AND RELOCATE UTILITIES IF NEEDED.
- COORDINATE WITH OWNER AND ADJOINING PROPERTIES WHEN SCHEDULING DISCONNECTION OF UTILITIES OR SERVICE DISRUPTIONS.
- USE GRANULAR BACKFILL MATERIALS FOR ALL UTILITY EXCAVATIONS WITHIN 2' OF PAVED SURFACES.
- ADJUSTMENTS OF UTILITY FIXTURES, VALVES, AND CASTINGS SHALL BE INCIDENTAL TO THE PAVEMENT AND GRADING ITEMS, UNLESS NOTED OTHERWISE. ANY DAMAGE MADE TO UTILITIES DURING ADJUSTMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR.
- EXISTING UTILITY MARKERS SHALL BE CAREFULLY REMOVED, STORED, AND REINSTALLED AS REQUIRED FOR CONSTRUCTION. UTILITY MARKERS LOST OR DESTROYED SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- STORM SEWER AND SANITARY SEWER PIPING IS MEASURED FROM CENTER TO CENTER OF STRUCTURE. SLOPES AND LENGTHS ARE BASED UPON THOSE MEASUREMENTS.
- WATER LINES SHALL BE INSTALLED WITH A MINIMUM OF 5' OF COVER.
- COMPLY WITH IOWA DNR REQUIREMENTS FOR WATER AND SEWER SEPARATION AND CONSTRUCTION MATERIALS.

STORM SEWER NOTES:

- SEE CITY OF ELDRIDGE SPECIFICATIONS FOR ALLOWABLE PIPE MATERIALS.
- ALL CURB INLET GRATES SHALL BE INSTALLED 2 INCHES BELOW FORM GRADE. PROVIDE SPECIAL SHAPING AS NEEDED TO DRAIN AND TO PROVIDE SMOOTH TRANSITION. SEE INLET AND CATCH BASIN DETAILS.
- LENGTHS OF PIPE RUNS SHOWN ARE MEASURED FROM CENTER TO CENTER OF STRUCTURES.
- ADHERE TO ALL IOWA DNR WATER AND SEWER SEPARATION REQUIREMENTS.

SANITARY SERVICE NOTES:

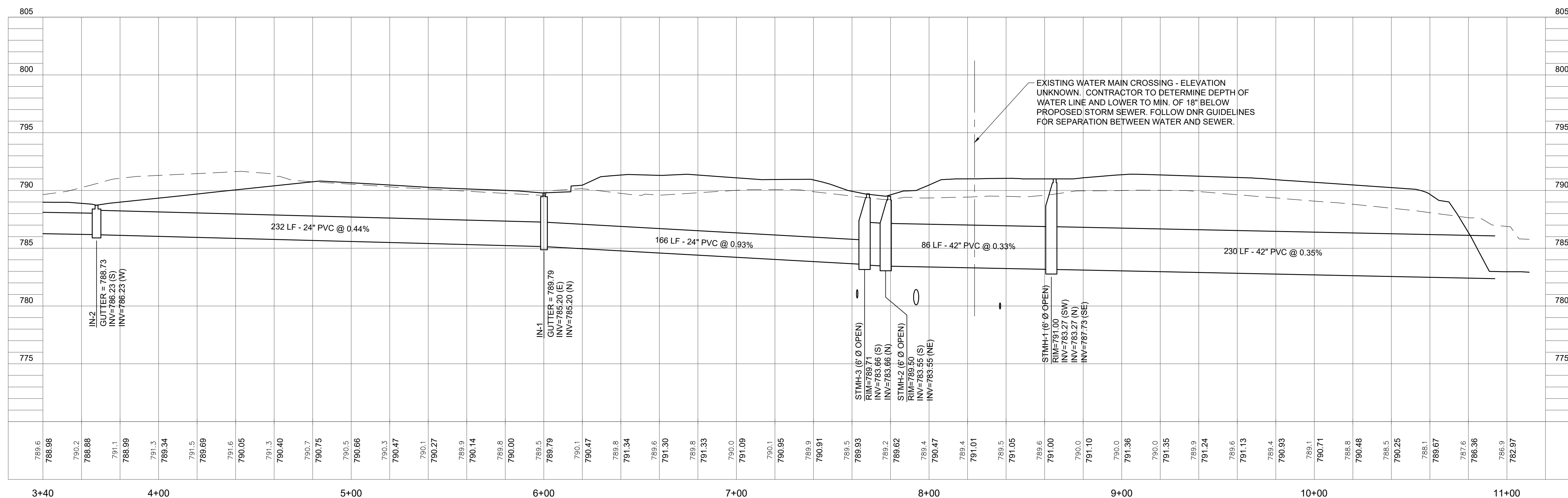
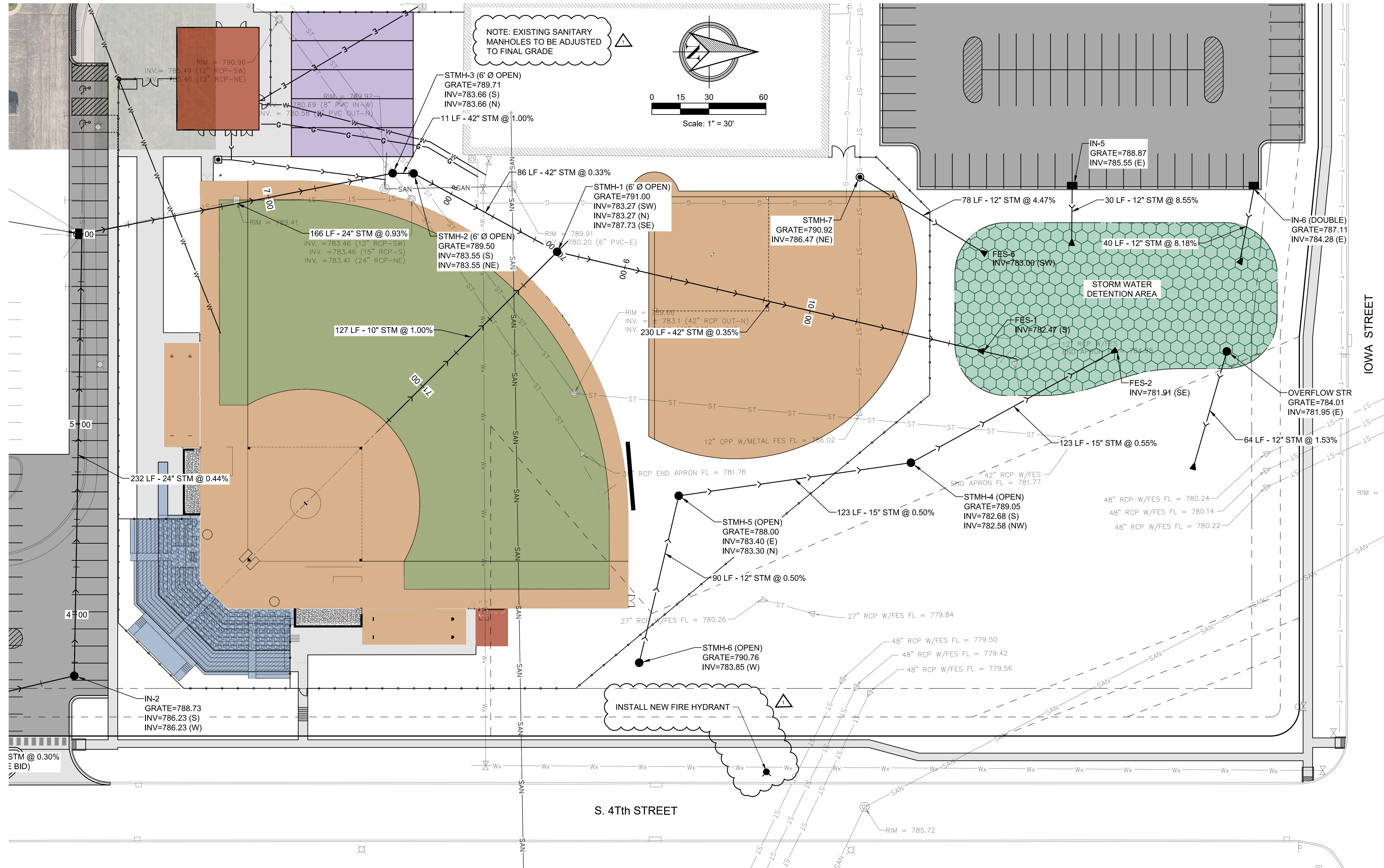
- SEE CITY OF ELDRIDGE SPECIFICATIONS FOR ALLOWABLE PIPE MATERIALS.
- ADHERE TO ALL IOWA DNR WATER AND SEWER SEPARATION REQUIREMENTS.

WATER MAIN NOTES:

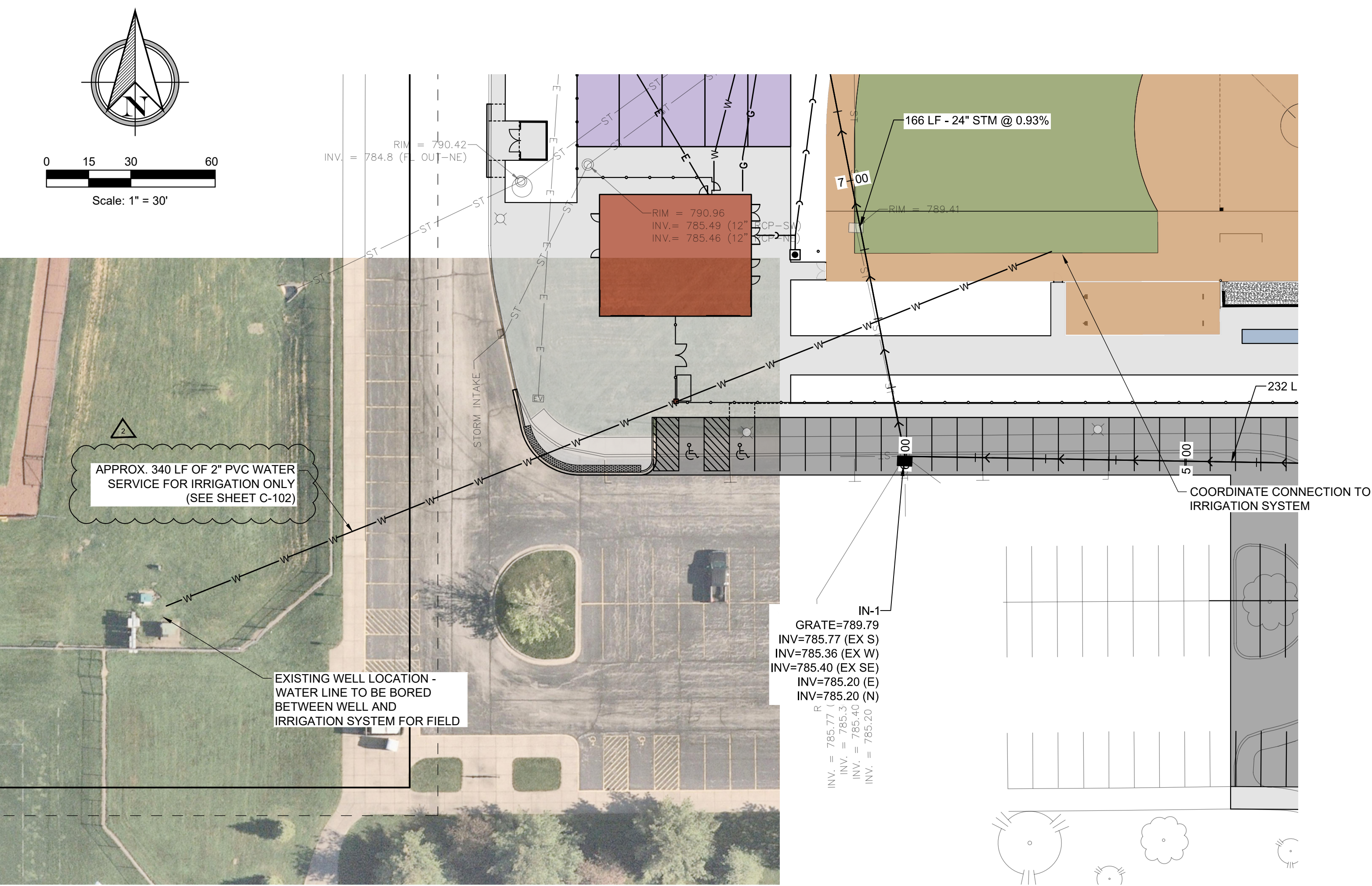
- WATER SERVICE SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ELDRIDGE WATER STANDARD SPECIFICATIONS FOR WATER MAIN CONSTRUCTION DATED JUNE 2019 AND ASSOCIATED DETAILS.
- WATER SERVICES SHALL BE INSTALLED WITH A MINIMUM COVER OF 5 FEET.
- WATER SERVICE PIPING SHALL BE CONSTRUCTED OF COPPER TUBING COMPLYING WITH ASTM B 88, TYPE K, WITH TRACER WIRE.
- WALL/FLOOR PENETRATION WATERPROOFING: LINKSEAL MODULAR SEAL BY THUNDERLINE, OR EQUAL.
- ADHERE TO ALL IOWA DNR WATER AND SEWER SEPARATION REQUIREMENTS.

TRENCH EXCAVATION AND BACKFILL:

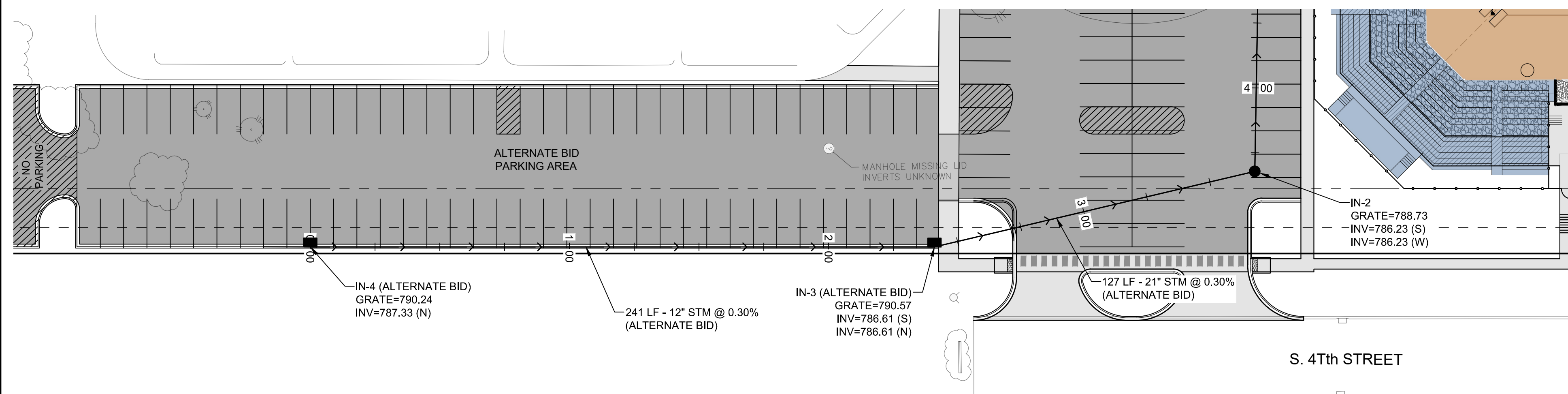
- EXCAVATE TRENCH TO UNIFORM WIDTHS AS SHOWN IN STANDARD DETAILS. TRENCH BOTTOM SHALL PROVIDE A SMOOTH, FIRM, STABLE, AND ROCK FREE FOUNDATION FOR THE ENTIRE LENGTH OF THE PIPE.
- FOR UTILITIES IN FILL, CONSTRUCT COMPACTED EMBANKMENT TO A MINIMUM OF 2' ABOVE TOP OF PIPE ELEVATION PRIOR TO TRENCHING.
- NOTIFY OWNER IF UNSUITABLE MATERIALS EXIST IN THE TRENCH. OVEREXCAVATE AS DEEMED NECESSARY BY THE OWNER, AND INSTALL TRENCH STABILIZATION MATERIAL BELOW THE BEDDING ELEVATION TO PROVIDE FOR PROPER PIPE OR STRUCTURE SUPPORT.
- BACKFILL WITH GRANULAR MATERIALS AS SPECIFIED ABOVE TO 1' ABOVE PIPE FOR FLEXIBLE PIPE MATERIALS AND TO SPRINGLINE FOR RIGID PIPE MATERIALS.
- REMAINDER OF TRENCH SHALL BE BACKFILLED WITH SUITABLE EXCAVATED MATERIALS IN LOCATIONS BEYOND 2' OF PAVED SURFACES. USE GRANULAR BACKFILL MATERIALS WITHIN 2' OF PAVED SURFACES AS SPECIFIED ABOVE.
- PLACE AND COMPACT SPECIFIED BACKFILL MATERIALS TO THE PROPOSED SUBGRADE OR SURFACE ELEVATIONS. COMPACT TO 95% OF STANDARD PROCTOR DENSITY BENEATH PAVEMENT AND WITHIN PUBLIC RIGHT-OF-WAY AND 90% OF STANDARD PROCTOR DENSITY IN OTHER LOCATIONS.



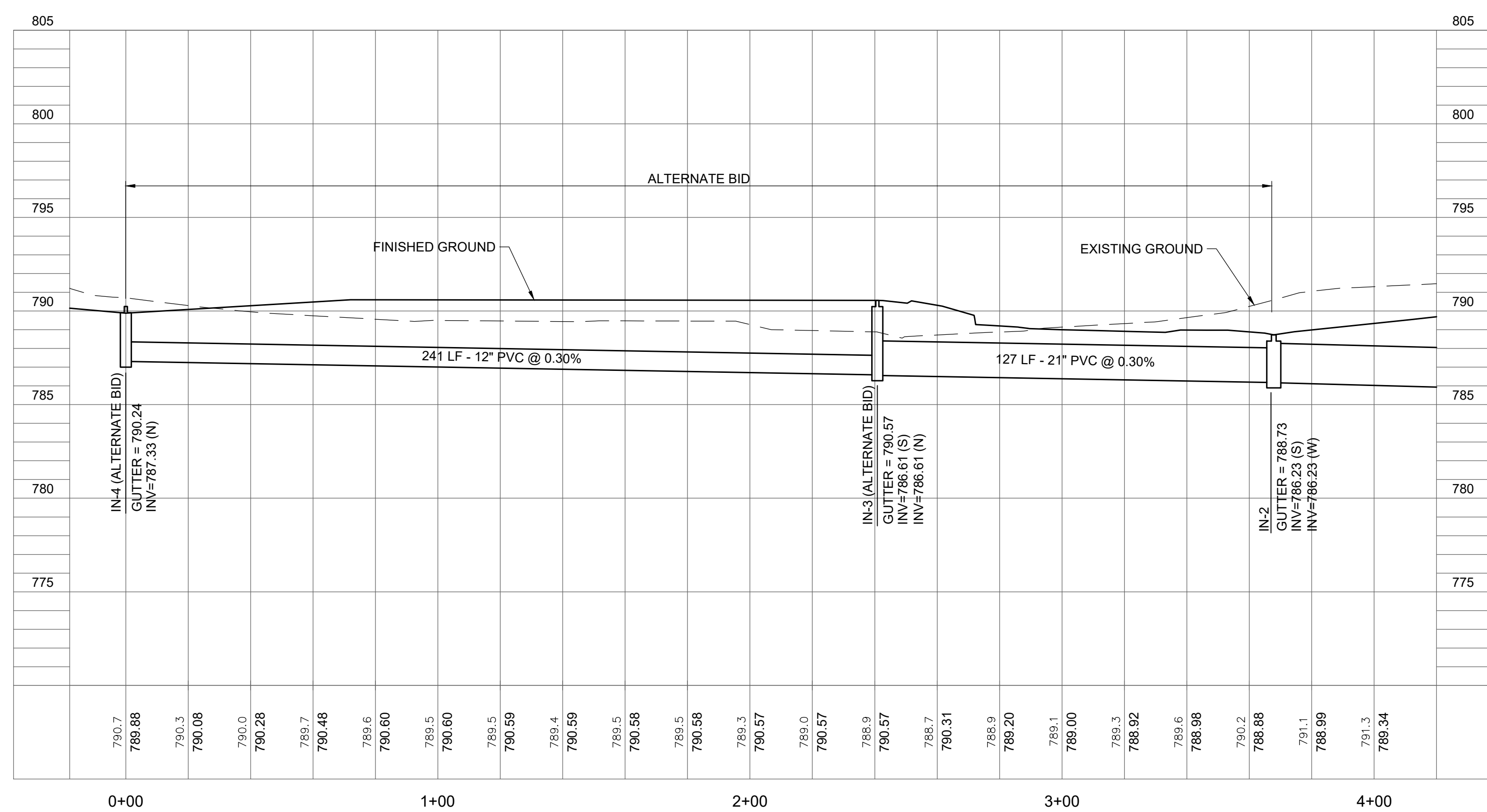




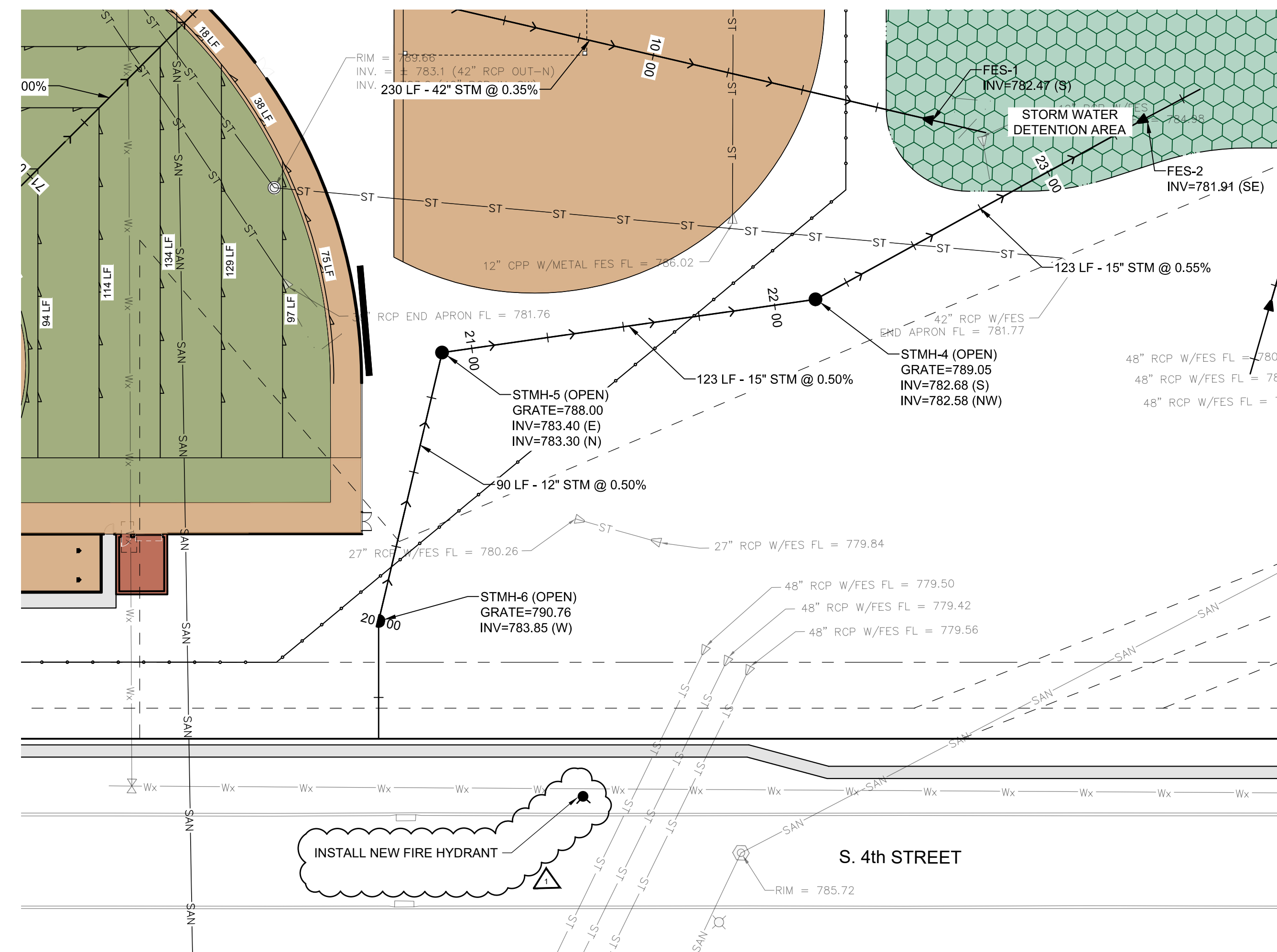
IRRIGATION WATER SUPPLY ROUTING



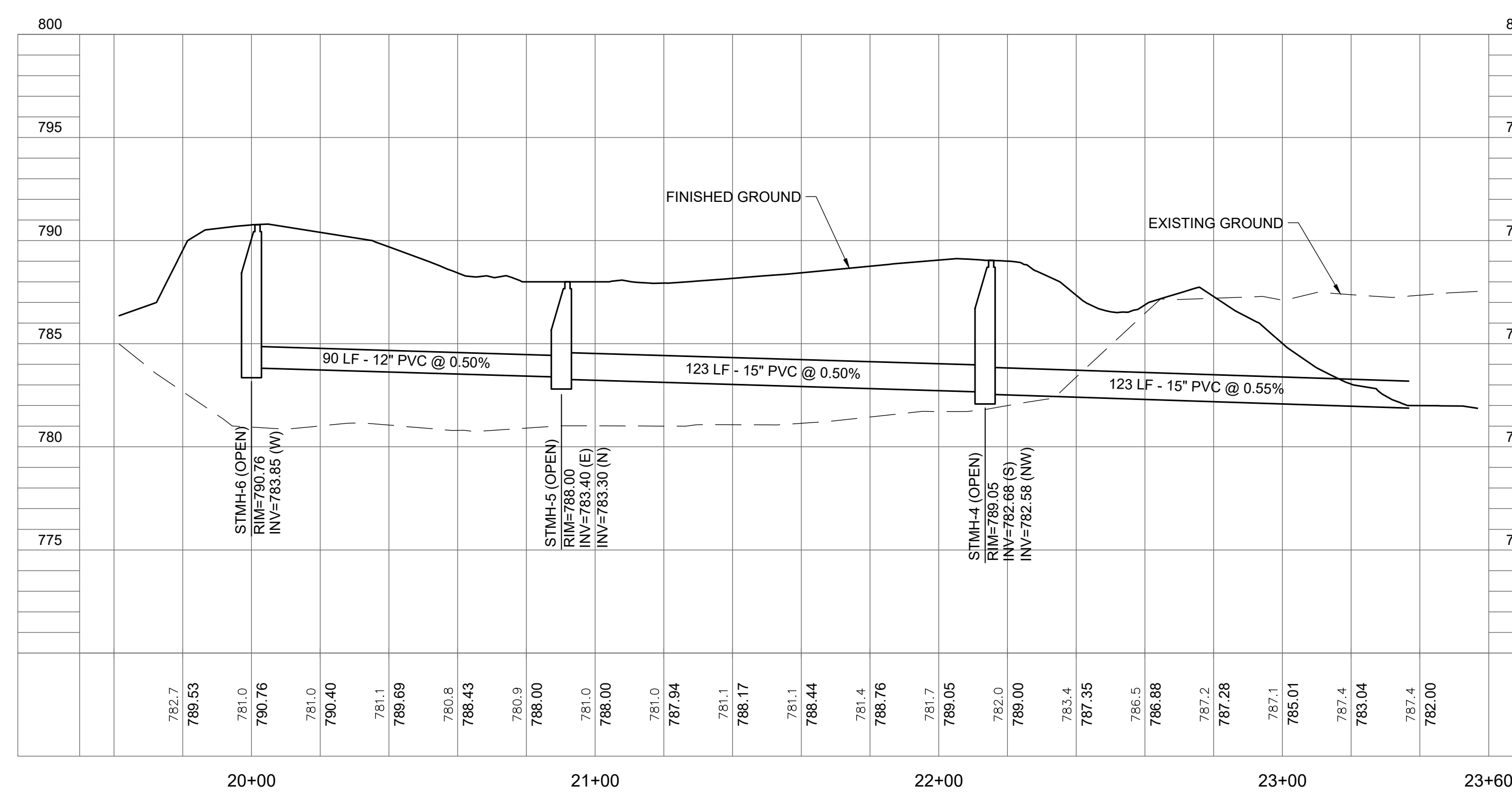
S. 4TH STREET



ALTERNATE PARKING AREA STORM SEWER



S. 4TH STREET



STORM SEWER AT NORTHEAST OF FIELD

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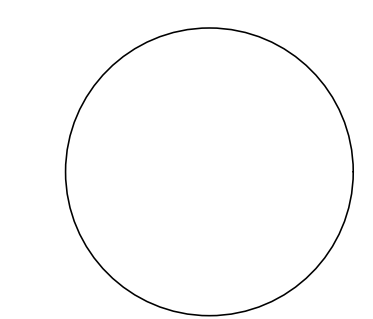
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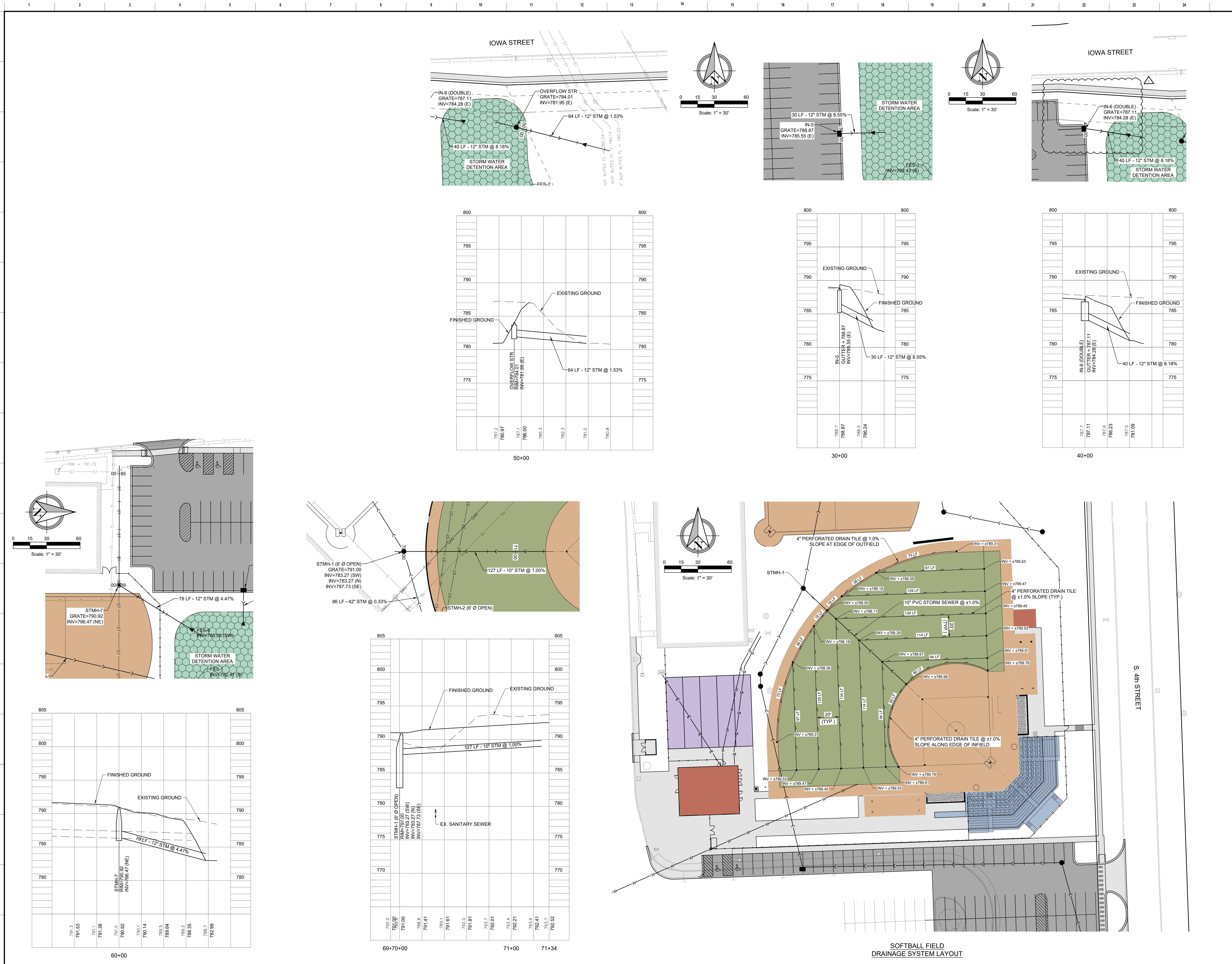
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**UTILITY PROFILES  
STORM SEWER**

**C-103B**  
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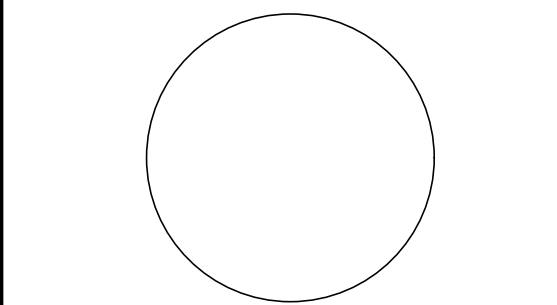
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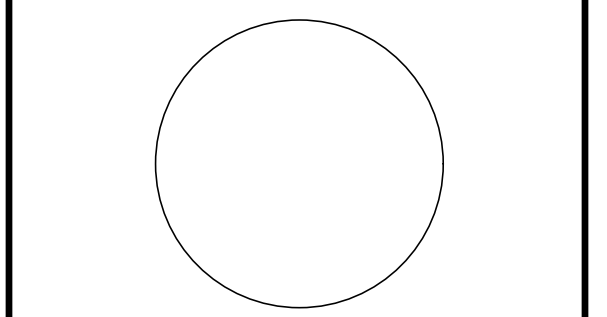
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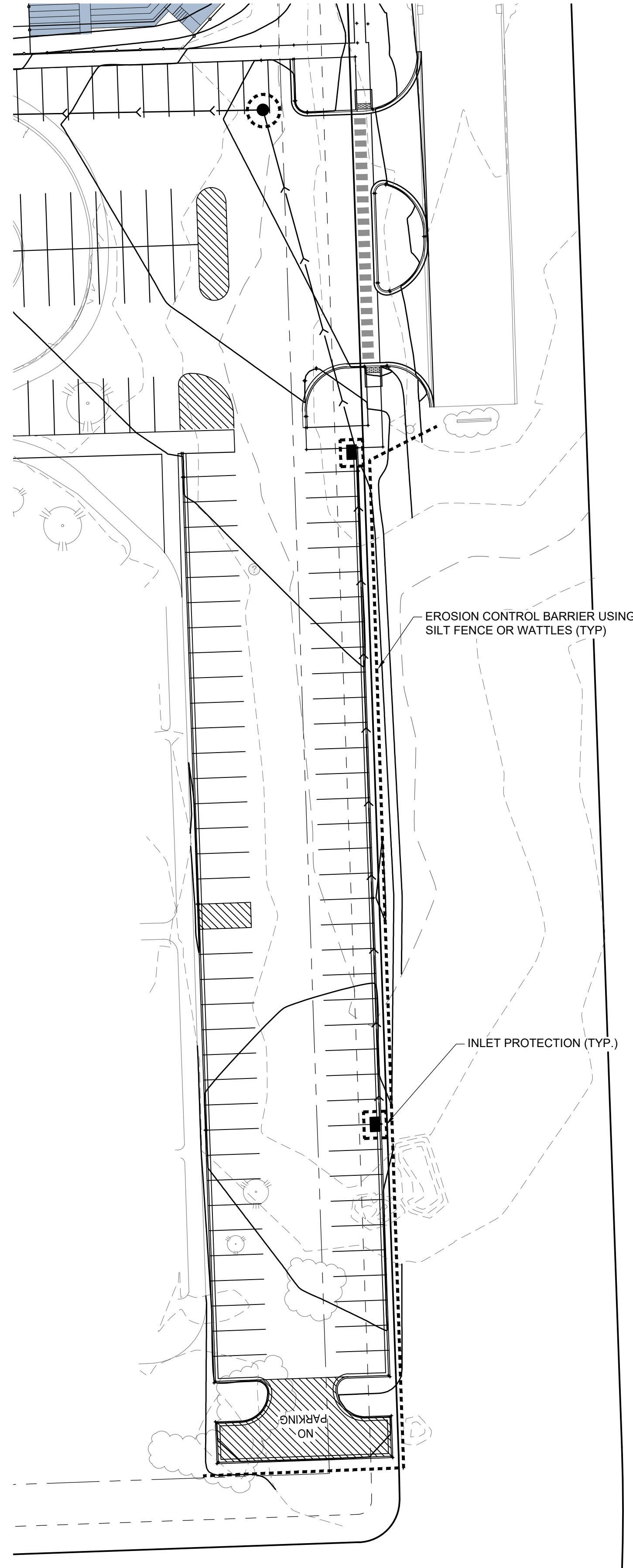
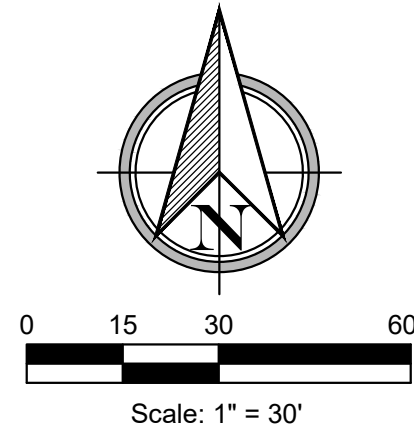
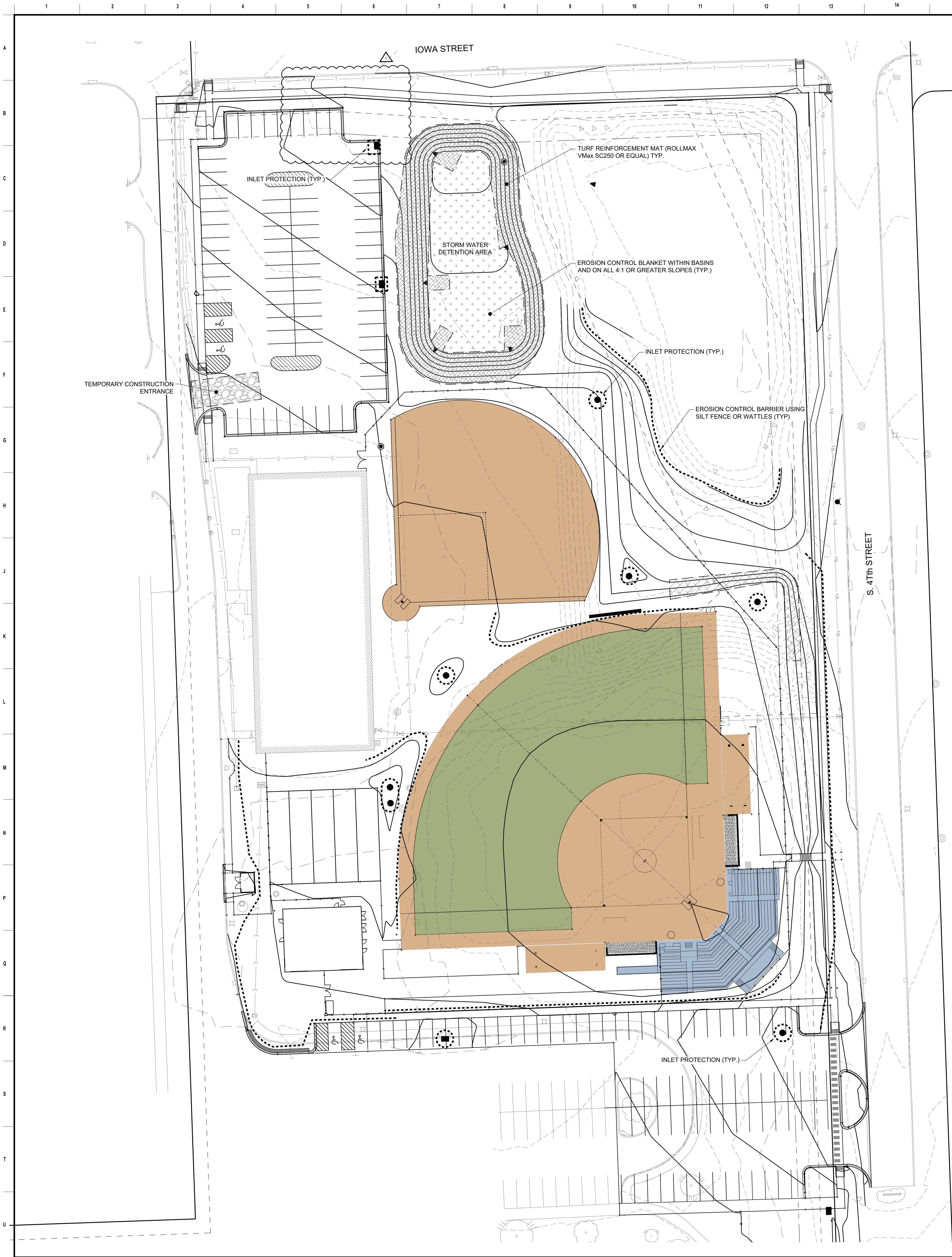
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**GRADING PLAN**

**C-105**  
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ALTERNATE PARKING AREA

- EROSION CONTROL NOTES:**
1. CONTRACTOR SHALL FOLLOW THE IOWA DNR REGULATIONS AND THE CITY OF ELDRIDGE GUIDELINES FOR EROSION CONTROL.
  2. PROJECT IS COVERED UNDER A GENERAL NPDES PERMIT FOR CONSTRUCTION SITE ACTIVITIES. IT IS STILL THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE, MONITOR, INSPECT, AND MAINTAIN SITE EROSION CONTROL BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) AT ALL TIMES.
  3. CONTRACTOR SHALL PROVIDE POSITIVE DRAINAGE AT ALL TIMES WITH NO PONDING.
  4. EROSION CONTROL MUST BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS (OR AS SOON AS PRACTICAL). IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL EROSION CONTROL MEASURES INCLUDING SILT FENCE, SEDIMENT TRAPS, CHECK DAMS, DIVERSION SWALES, ETC. AS REQUIRED UNTIL VEGETATION IS ESTABLISHED.
  5. LOCATION OF EROSION CONTROL BARRIER SHOWN ON PLAN IS APPROXIMATE ONLY. ACTUAL PLACEMENT TO BE DETERMINED BY CONTRACTOR AND RELOCATED AS NECESSARY DURING PROGRESSION OF CONSTRUCTION ACTIVITIES.
  6. RUNS OF WATTLES, SILT FENCE, OR EROSION BARRIER SHALL NOT EXCEED 200 FEET.
  7. THE LAST 20 FEET OF A RUN OF SILT FENCE OR EROSION BARRIER SHALL FLARE UP THE SLOPE OR IN THE DIRECTION FROM WHICH THE FLOW ORIGINATES.
  8. INCORPORATE A MEANS OF EMERGENCY BYPASS TO PREVENT FLOODING DURING LARGE STORM EVENTS OR IF FILLED WITH SEDIMENT.
  9. CONTRACTOR SHALL PREVENT OFF-SITE TRACKING OF SEDIMENT. ANY SEDIMENT DEPOSITED ON PUBLIC ROADWAYS SHALL BE REMOVED AS SOON AS PRACTICAL.
  10. ALL DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, FINE GRADED, SEEDED, AND FERTILIZED. AREA TO BE COVERED WITH EROSION CONTROL BLANKETS OR OTHER METHOD APPROVED BY ARCHITECT.
  11. ALL DEVICES AND MATERIALS ARE TO BE REGULARLY CHECKED, CLEANED OUT, AND REPAIRED AS NEEDED AND IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES.
  12. IF NO ACTIVITY OCCURS OR IS ANTICIPATED FOR 14 DAYS, AREA SHALL BE STABILIZED WITHIN 7 DAYS OF LAST ACTIVITY.

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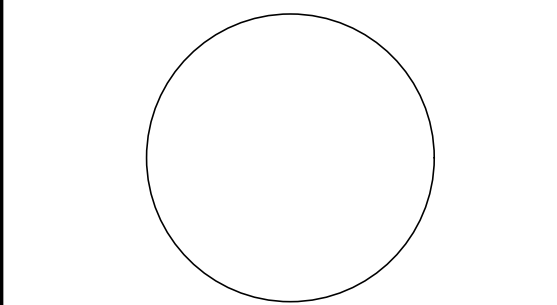
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1515 5th Avenue, Suite 108  
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P: 309.517.5536  
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**IMEG**  
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P: 309.786.0673  
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**EROSION CONTROL  
PLAN**

**C-106**  
CONSTRUCTION

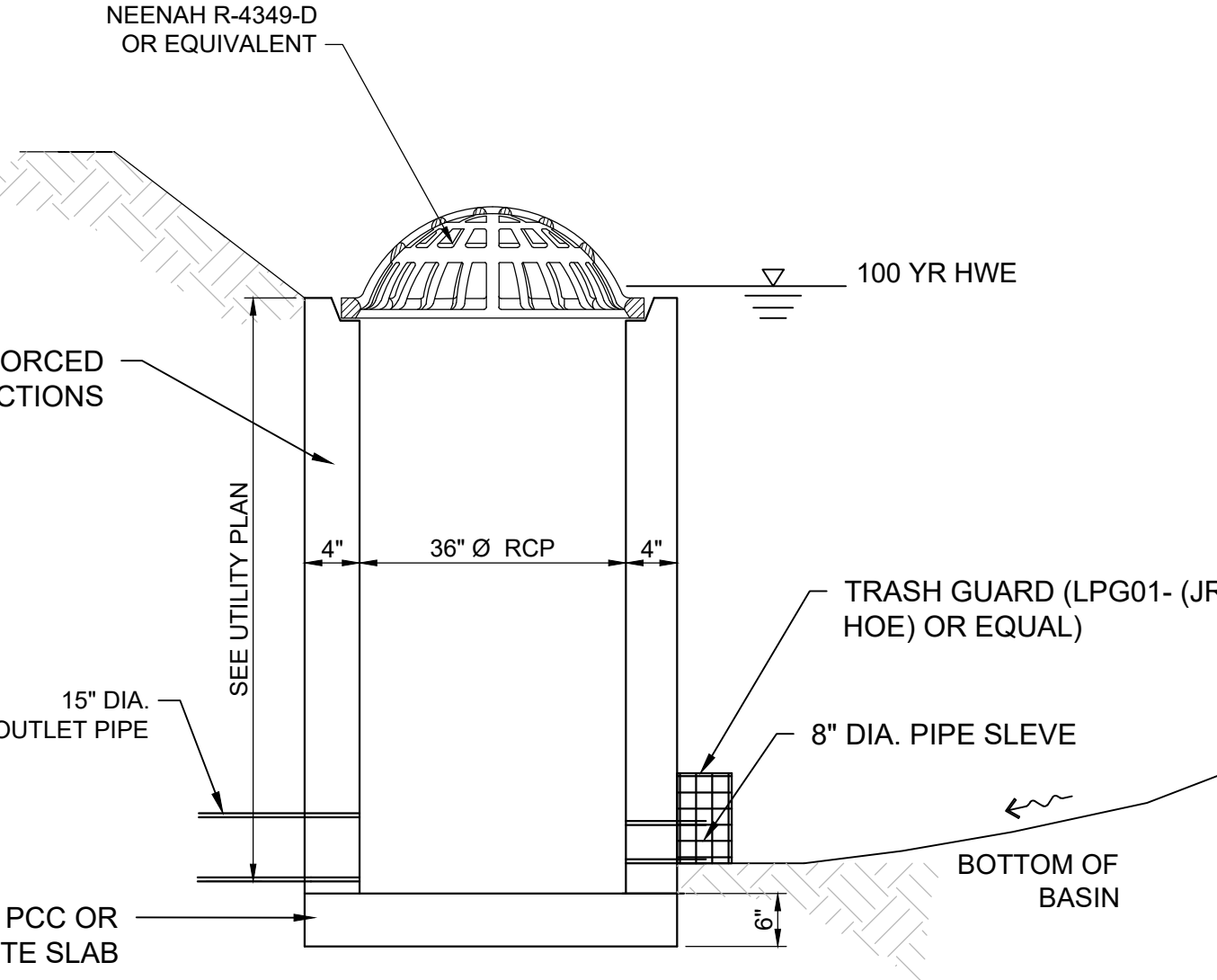
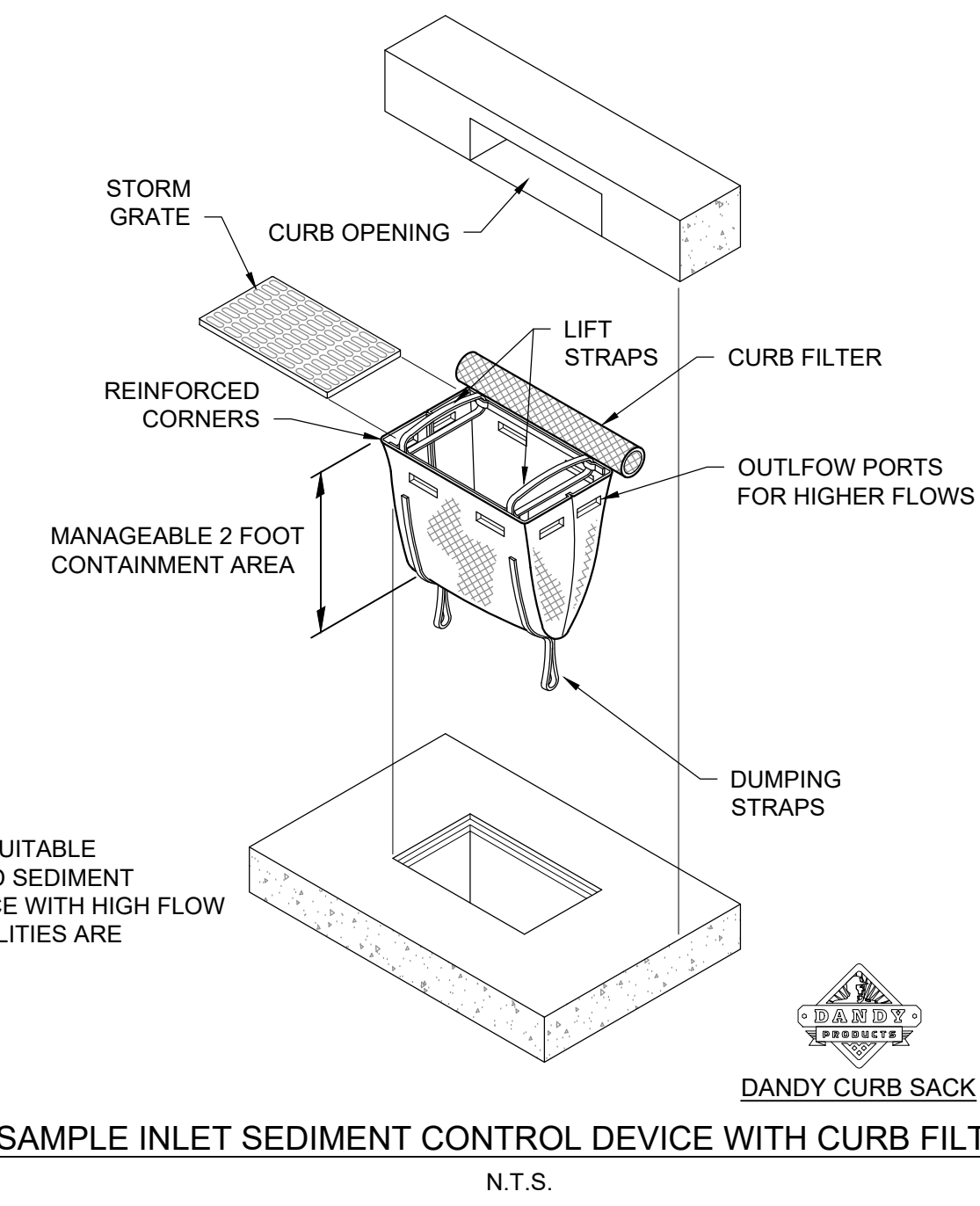


CITY STANDARD DETAILS

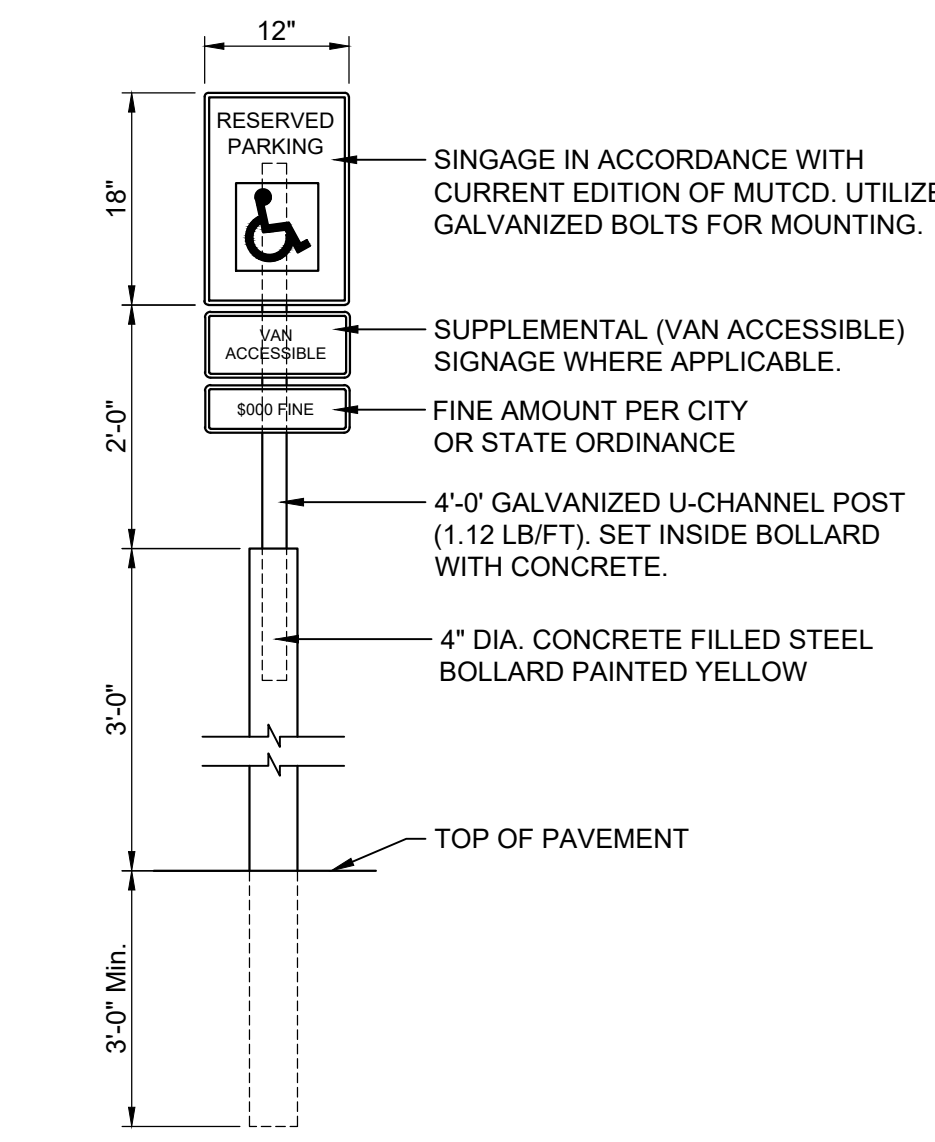
- SD-2 UTILITY LOCATION AND BACKFILL DETAIL  
SD-3 PIPE ENVELOPE REQUIREMENTS  
SD-5 STANDARD STORM MANHOLE  
SD-11 CONFLICTS WITH EXISTING SEWER MAINS OR SERVICES  
SD-12 RISER CONNECTION  
  
SD-14 SINGLE CATCH BASIN DETAIL  
SD-15 STANDARD CATCH BASIN (DOUBLE)  
SD-18 WATER MAIN FITTING DETAIL  
SD-22 LONGITUDINAL JOINT SPACING  
SD-23 TRANSVERSE JOINT DETAIL FOR PAVING

SUDAS STANDARD DETAILS

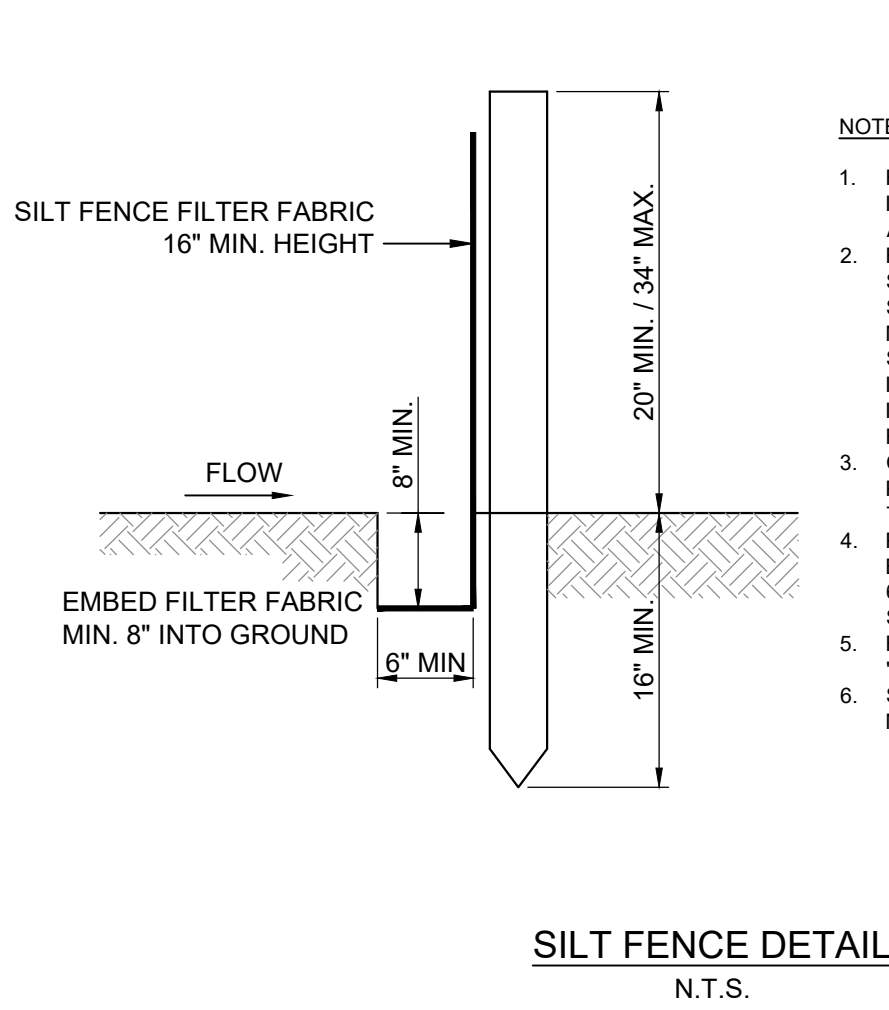
- 4010.203 SANITARY SEWER CLEANOUT  
4010.211 STORM SEWER PIPE CONNECTIONS  
6010.512 CIRCULAR AREA INTAKE  
6010.514 BOXOUT FOR GRATE INTAKES  
6010.604 CASTINGS FOR AREA INTAKES



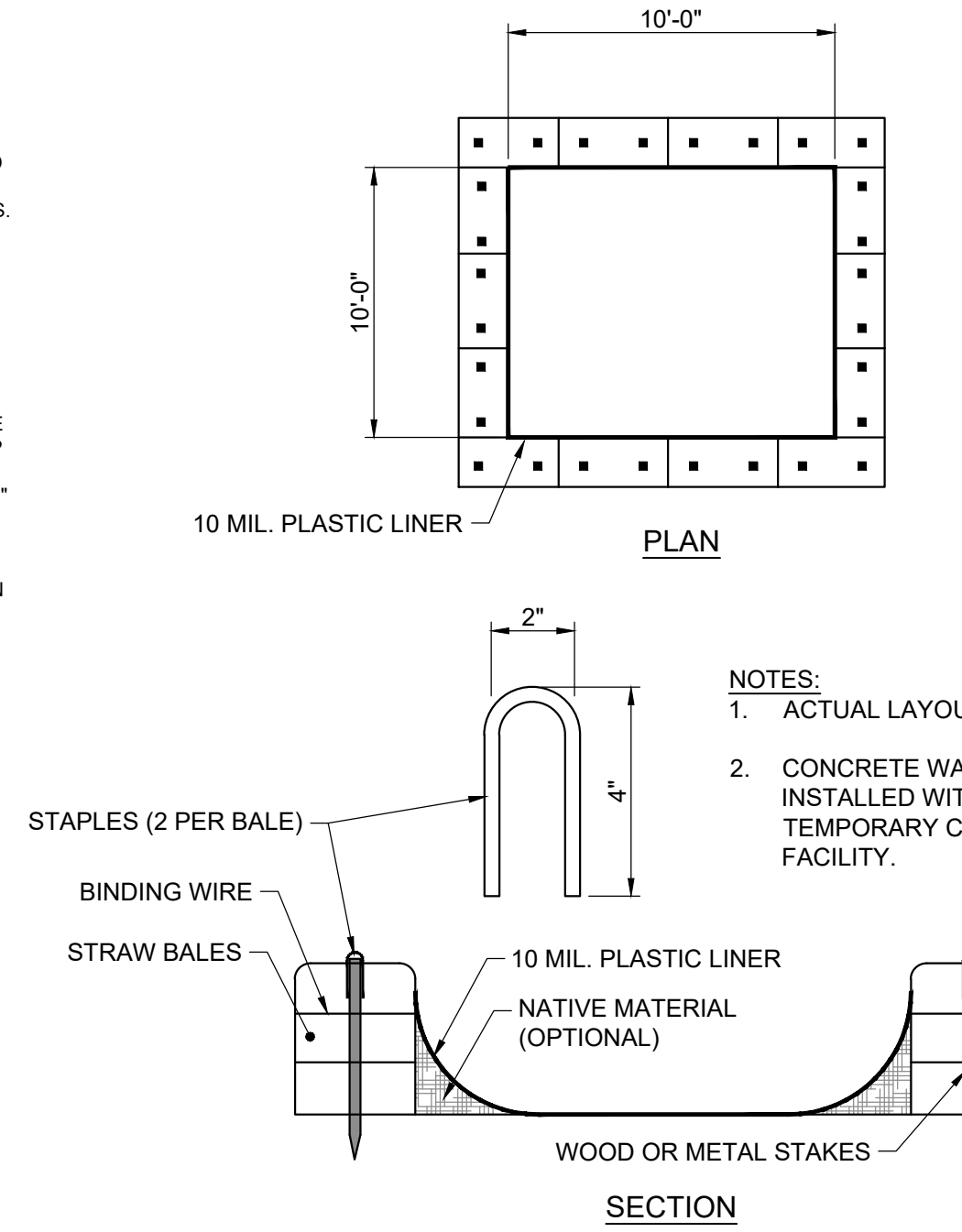
DETENTION OUTFALL STRUCTURE  
N.T.S.



ADA PARKING SIGN AND BOLLARD DETAIL  
N.T.S.



SILT FENCE DETAIL  
N.T.S.



TEMPORARY CONCRETE WASHOUT  
N.T.S.

NOTE: THE DANDY CURB SACKS WILL BE MANUFACTURED IN THE U.S.A. FROM A WOVEN MONOFILAMENT FABRIC THAT MEETS OR EXCEEDS THE FOLLOWING SPECIFICATIONS.

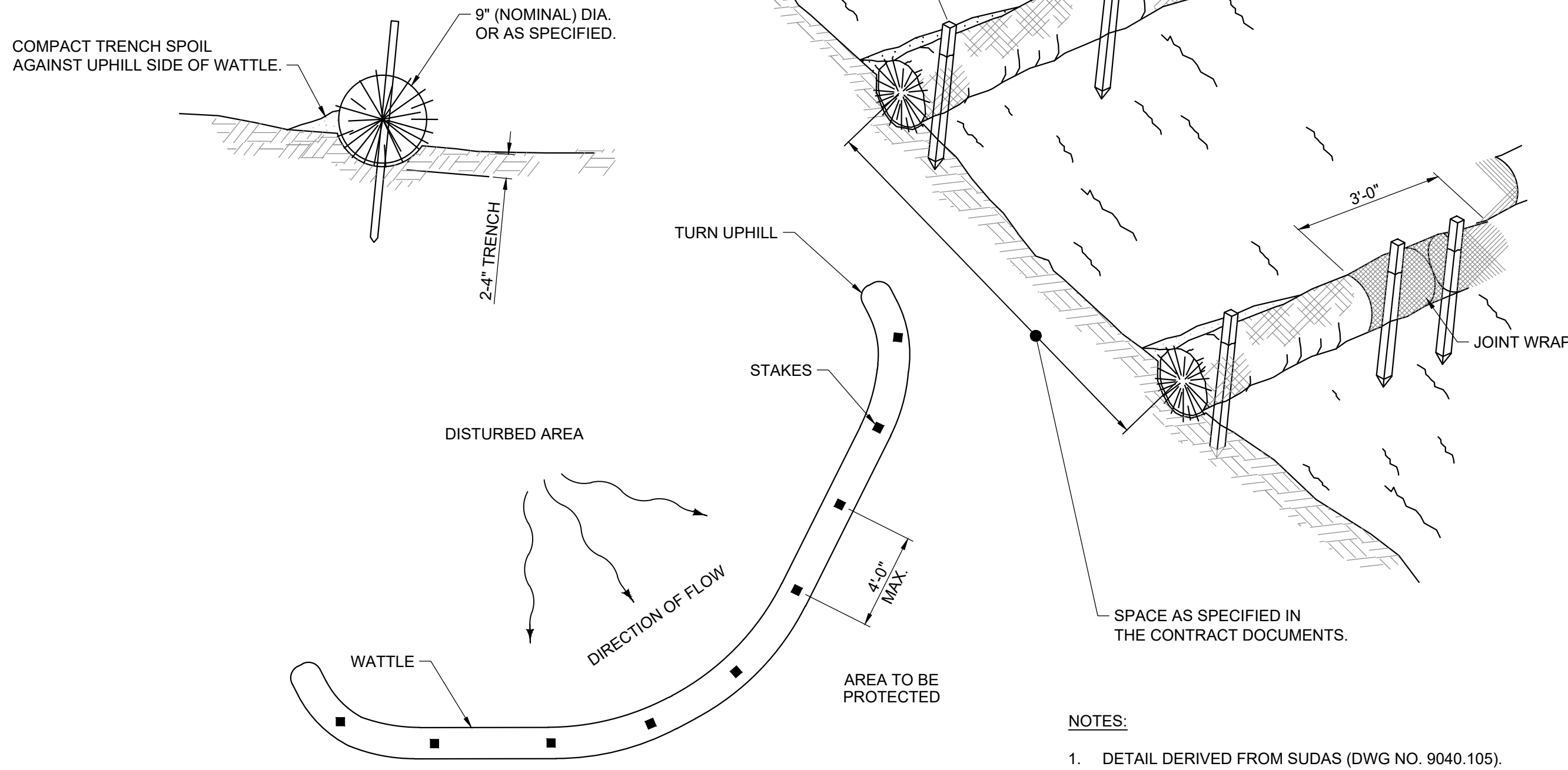
REGULAR-FLOW DANDY CURB SACK (BLACK)

MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
GRAB TENSILE STRENGTH	ASTM D 4632	kN (lbs)	1.78 (400) x 1.40 (315)
GRAB TENSILE ELONGATION	ASTM D 4632	%	15 x 15
PUNCTURE STRENGTH	ASTM D 4833	kN (lbs)	0.67 (150)
MULLEN BURST STRENGTH	ASTM D 3786	kPa (psi)	5506 (800)
TRAPEZOID TEAR STRENGTH	ASTM D 4533	kN (lbs)	0.67 (150) x 0.73 (165)
UV RESISTENCE	ASTM D 4355	%	90
APPARENT OPENING SIZE	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
FLOW RATE	ASTM D 4491	l/min/m <sup>2</sup> (gal/min/ft <sup>2</sup> )	2852 (70)
PERMITTIVITY	ASTM D 4491	Sec <sup>-1</sup>	0.90

HI-FLOW DANDY CURB SACK (SAFETY ORANGE)

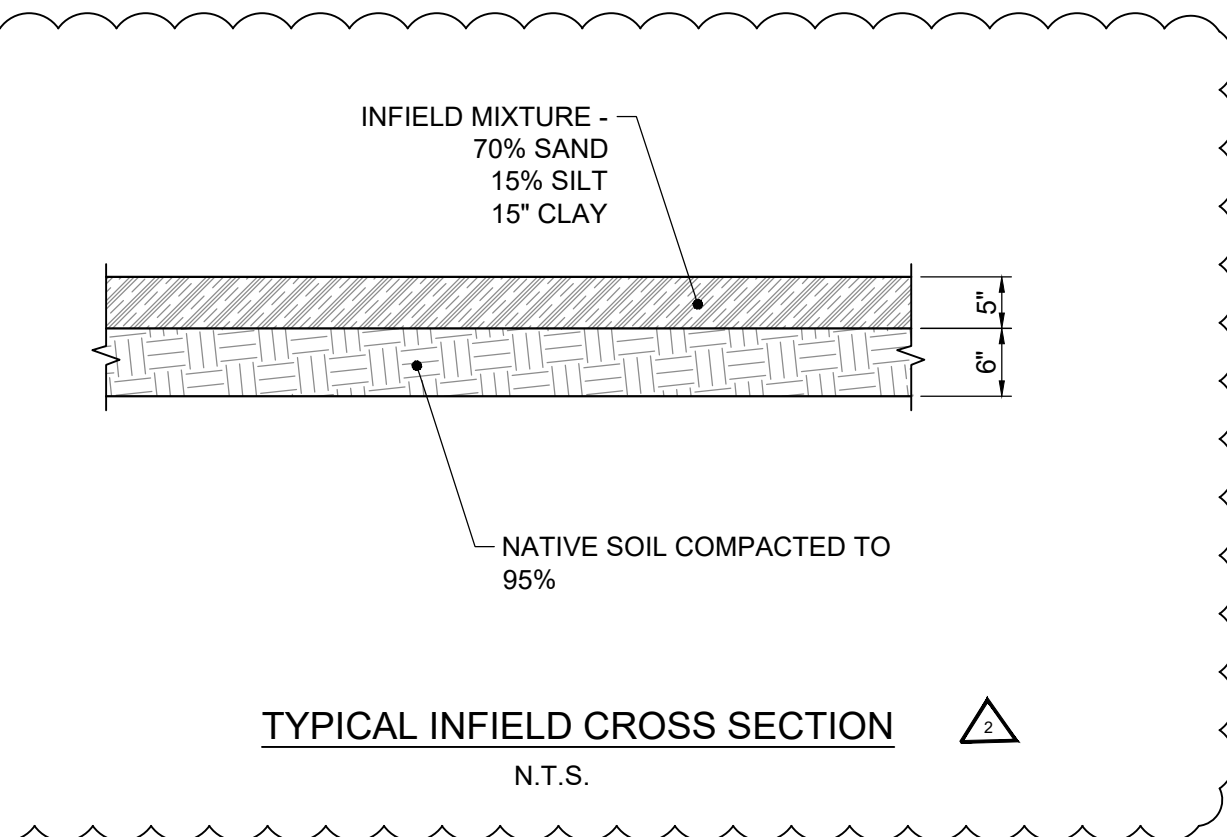
MECHANICAL PROPERTIES	TEST METHOD	UNITS	MARV
Grab Tensile Strength	ASTM D 4632	kN (lbs)	1.62 (365) X 0.89 (200)
Grab Tensile Elongation	ASTM D 4632	%	24 X 10
Puncture Strength	ASTM D 4833	kN (lbs)	0.40 (90)
Mullen Burst Strength	ASTM D 3786	kPa (psi)	3097 (450)
Trapezoid Tear Strength	ASTM D 4533	kN (lbs)	0.51 (115) X 0.33 (75)
UV Resistance	ASTM D 4355	%	90
Apparent Opening Size	ASTM D 4751	Mm (US Std Sieve)	0.425 (40)
Flow Rate	ASTM D 4491	l/min/m <sup>2</sup> (gal/min/ft <sup>2</sup> )	5907 (145)
Permittivity	ASTM D 4491	Sec <sup>-1</sup>	2.1

\*NOTE: ALL DANDY SACKS CAN BE ORDERED WITH OUR OPTIONAL OIL ABSORBENT PILLOWS

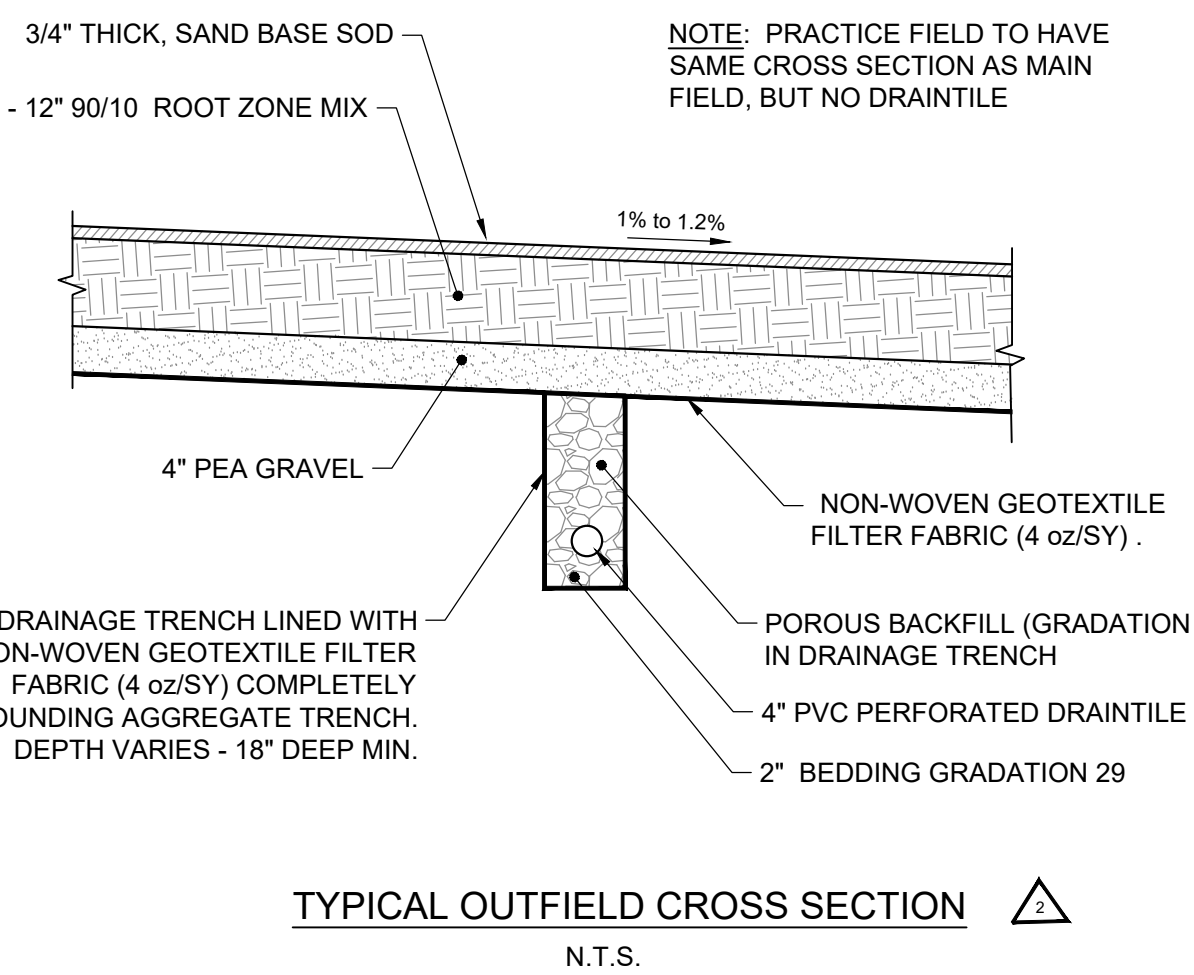


WATTLE  
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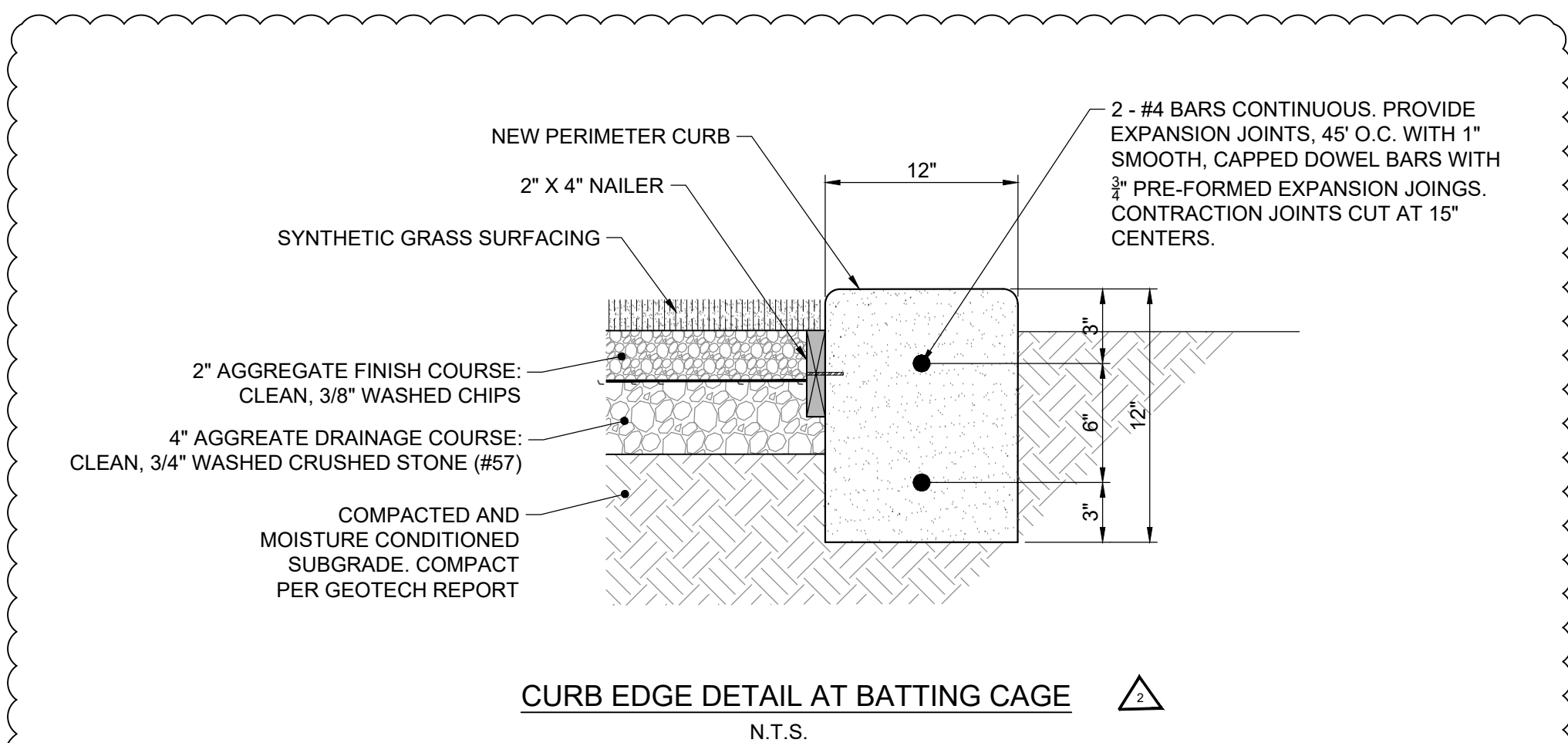
- NOTES:  
1. DETAIL DERIVED FROM SUDAS (DWG NO. 9040.105).



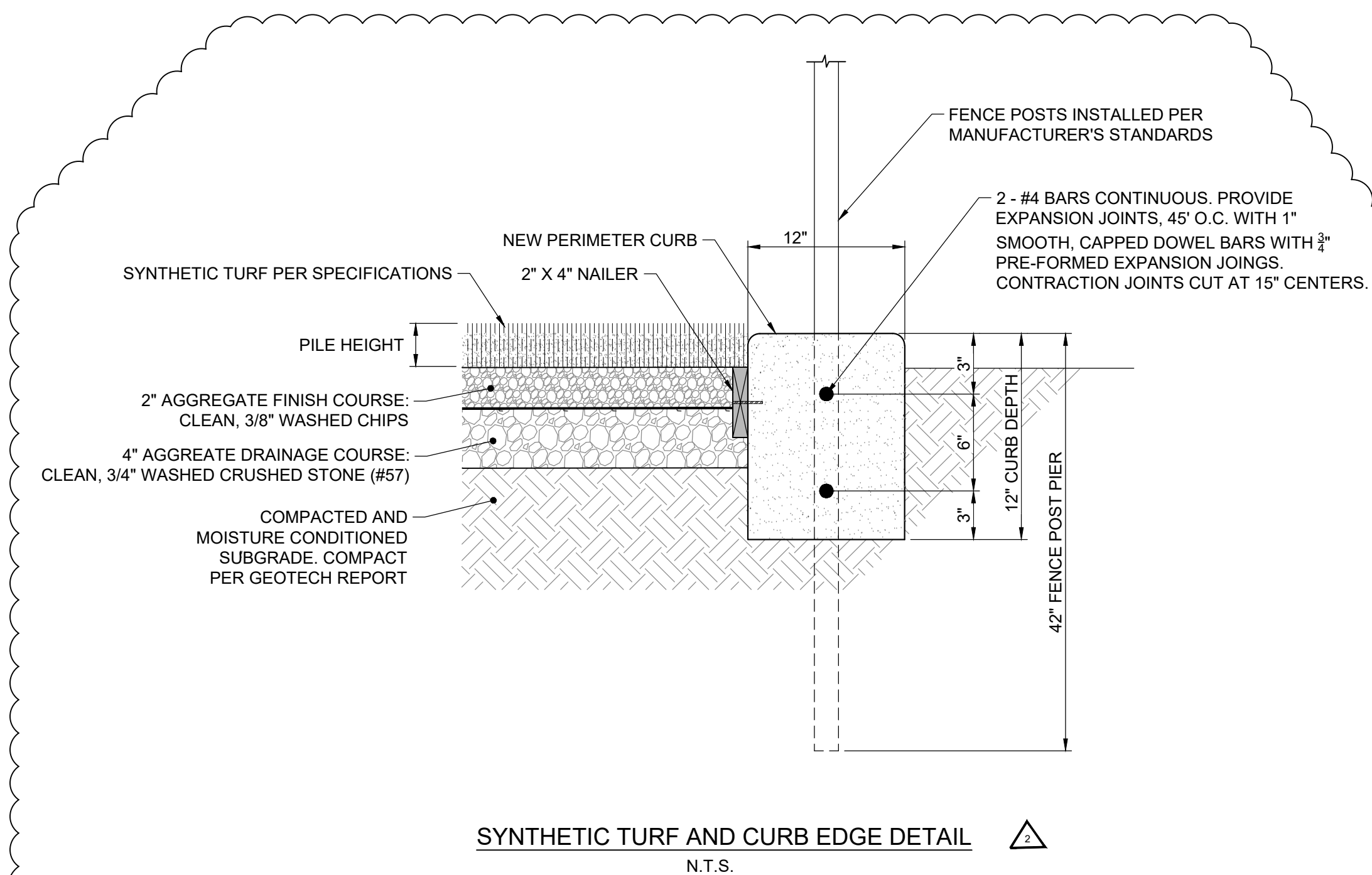
TYPICAL INFIELD CROSS SECTION  
N.T.S.



TYPICAL OUTFIELD CROSS SECTION  
N.T.S.



CURB EDGE DETAIL AT BATTING CAGE  
N.T.S.



SYNTHETIC TURF AND CURB EDGE DETAIL  
N.T.S.

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Legat Architects  
1515 5th Avenue, Suite 108  
Moline, IL 61265  
P: 309.517.5536  
www.legat.com

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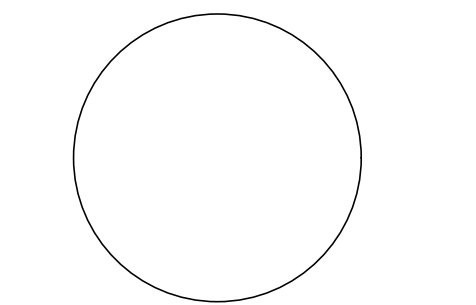
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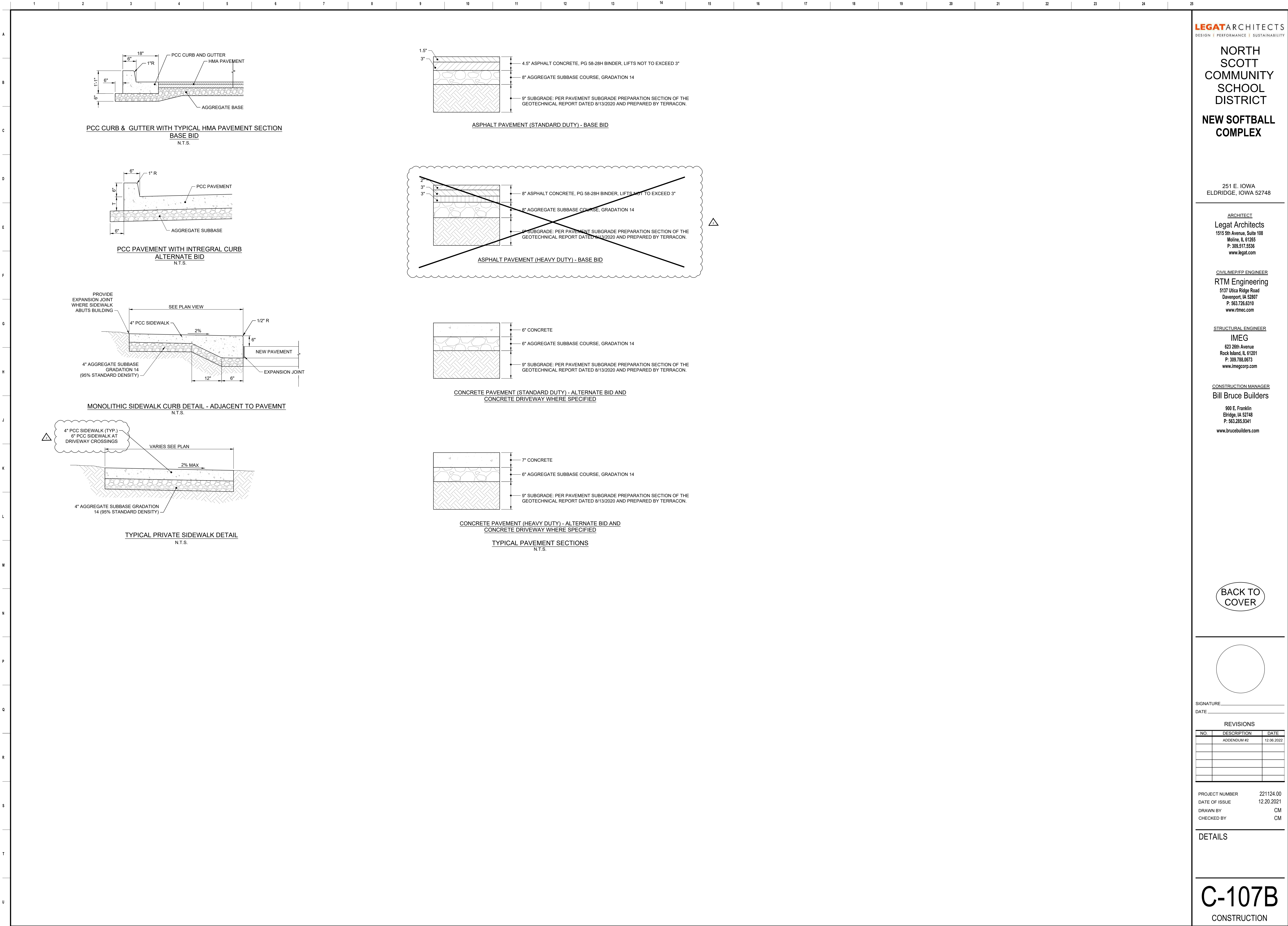
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DETAILS

C-107A  
CONSTRUCTION





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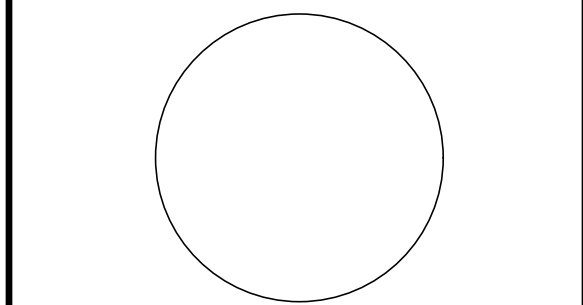
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P: 309.786.0673  
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DETAILS

**C-107B**  
CONSTRUCTION



DESIGN CRITERIA

1. STRUCTURE HAS BEEN DESIGNED TO COMPLY WITH:
- IBC 2015
  - ASCE 7-10
  - ACI 318-14
  - ASCE 360-10
  - TMS 420/620-10
- RISK CATEGORY II
- LIVE LOADS:
3. PUBLIC AREAS 100 PSF (UNREDUCIBLE)
4. SNOW 25 PSF
- GROUND SNOW
- SNOW EXPOSURE FACTOR 0.9
- THERMAL FACTOR 1.0
- IMPORTANCE FACTOR 1.0
- BALANCED LOAD 16 PSF (CONCESSIONS)
- DESIGN SNOW 20 PSF
5. SEISMIC:
- SEISMIC DESIGN CATEGORY A
- IMPORTANCE FACTOR 1.0
- SOIL CLASS E
- Ss 0.09 g
- S1 0.083
- Sds 0.144 g
- Sd1 0.175 g
- SEISMIC FORCE RESISTING SYSTEM ORDINARY REINFORCED MASONRY SHEAR WALLS
- Cd 1.0
- Do 2.5
- ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE
- DESIGN BASE SHEAR, STRENGTH LEVEL
- V = C<sub>s</sub> x W = 0.072 x W KIPS, E-W AND N-S
- WIND:
- BASIC WIND SPEED V<sub>ULT</sub> = 115 MPH
- IMPORTANCE FACTOR 1.0
- EXPOSURE CLASS B
- INTERNAL PRESSURE COEFFICIENT 0.0 [BATTING CAGES]
- Gcp -40.55 [CONCESSIONS]
- 40.18 [CONCESSIONS]
- ROOF COMPONENTS:
- SUPPORT BEAMS (A > 100 SF) -22 PSF -26 PSF
- ROOF SHEATHING (A < 50 SF) -23 PSF -30 PSF
- DECK FASTENERS (A ≤ 10 SF) -24 PSF -40 PSF -60 PSF
- WALL COMPONENTS:
- A > 200 SF -20 PSF -21 PSF
- A < 50 SF -22 PSF -25 PSF
- C & C NOTES:
- a. THE PRESSURES LISTED ARE IN ACCORDANCE IBC AND ASCE 7, AND THE DESIGN FORCES USED BY THE SUBCONTRACTOR FOR A SPECIFIC APPLICATION ARE THE RESPONSIBILITY OF THE SUBCONTRACTOR
- b. WIND PRESSURES ARE ULTIMATE DESIGN LEVEL
- c. SEE ASCE 7 FOR ZONE DEFINITIONS AND EXTENT OF ZONES
- d. SUBMIT DESIGN CALCULATIONS PREPARED BY A QUALIFIED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED, FOR ANY DESIRED MODIFICATION TO THE STATED PRESSURES

7. ALL LATERAL LOAD STABILITY OF THE BUILDING IN THE COMPLETED STRUCTURE IS PROVIDED BY MASONRY SHEAR WALLS IN EACH ORTHOGONAL DIRECTION. SEE PLANS FOR LOCATIONS. THE ROOF DECKS SERVE AS HORIZONTAL DIAPHRAGM DISTRIBUTING THE LATERAL FORCES TO THE VERTICAL LATERAL ELEMENTS WHICH IN TURN CARRY THE LOAD TO THE BUILDING FOUNDATIONS.

GENERAL

1. DURING THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONNEL AND PROPERTY ON AND AROUND THE JOBSITE. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING, GUYS, ETC. IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.
2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS, ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.
3. STRUCTURAL SUBSTITUTIONS MAY BE ALLOWED WITH THE APPROVAL OF THE STRUCTURAL ENGINEER. SUPPLIER SHALL PROVIDE SEALED DESIGN CALCULATIONS OR SUITABLE PRODUCT LITERATURE FOR THE COMPONENTS.
4. ALL DIMENSIONS AND SITE CONDITIONS SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOBSITE PRIOR TO CONSTRUCTION. START OF SHOP DRAWINGS, START OF CONSTRUCTION, AND/OR FABRICATION OF MATERIALS. IF DISCREPANCIES ARE ENCOUNTERED, OR CONDITIONS DEVELOP THAT ARE NOT COVERED BY THE CONTRACT DOCUMENTS, THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION.
5. CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR THE PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES AND AREAS WHICH MAY BE DAMAGED AS A RESULT OF NEW WORK.
6. STRUCTURAL DRAWINGS INCLUDE DESIGN REQUIREMENTS AND DIMENSIONS FOR STRUCTURAL INTEGRITY BUT DO NOT SHOW ALL DETAIL DIMENSIONS TO FIT INTRICATE ARCHITECTURAL AND MECHANICAL DETAILS. CONTRACTOR SHALL SO CONSTRUCT THE WORK SO IT WILL CONFORM TO THE CLEARANCES REQUIRED BY ARCHITECTURAL, MECHANICAL AND ELECTRICAL DESIGN.
7. ALL SYMBOLS AND ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED TO BE CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO PROCEEDING WITH THE WORK.
8. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH ARCHITECT.
9. TYPICAL DETAILS SHALL APPLY TO SITUATIONS OCCURRING ON THE PROJECT THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY IDENTIFIED. IF DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.
10. THE CONTRACT DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE AND SAFETY OF WORKMEN DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING AND SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC.
11. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT OR STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OR APPROVAL OF THE ABOVE ITEMS AND DO NOT IN ANY WAY RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITIES FOR THE ABOVE.
12. SEE ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS FOR DETAILS, CONDITIONS, PITS, TRENCHES, PADS, DEPRESSIONS, ROOF/FLOOR OPENINGS, STAIRS, SLEEVES, ITEMS TO BE EMBEDDED OR ATTACHED TO STRUCTURAL ELEMENTS, ETC., NOT SHOWN ON THE STRUCTURAL DRAWINGS.
13. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR MECHANICAL, ELECTRICAL AND PLUMBING WITH APPROPRIATE TRADE CONTRACTORS AND LOCATIONS. PROVIDE ALL SHOWN FOR DUCTS, PIPE, INSERTS AND OTHER PENETRATIONS WHEN SHOWN ARE FOR GENERAL INFORMATION ONLY AND SHALL BE VERIFIED PRIOR TO FORMING.
14. NO HOLES, NOTCHES, BLOCK-OUTS, ETC. ARE ALLOWED IN STRUCTURAL ELEMENTS UNLESS SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER.
15. BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, EACH PARTY SHALL VISIT THE PREMISES AND BECOME FULLY ACQUAINTED WITH CONDITIONS IN FIELD. TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPE OF EQUIPMENT, ETC. THE PROPOSAL SHALL INCLUDE ALL SUMS REQUIRED TO DO THE WORK.

DELEGATED DESIGN

1. DELEGATED DESIGNS PER SECTION 107.3.4.1 SHALL BE SUBMITTED TO THE BUILDING OFFICIAL AND THE DESIGN PROFESSIONALS AND REVIEWED PRIOR TO INSTALLATION. DELEGATED DESIGNS ARE:
- a. BLEACHERS
  - b. WOOD TRUSSES
  - c. SCOREBOARD CONNECTIONS
  - d. BATTING CAGE COLUMNS AND FOUNDATIONS
3. ALL DELEGATED DESIGNS SHALL BEAR THE STAMP AND SIGNATURE OF THE QUALIFIED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED, RESPONSIBLE FOR THE PREPARATION OF THESE DOCUMENTS.

SUBMITTALS

1. SUBMITTALS ARE:
- a. CONCRETE MIX DESIGNS
  - b. MATERIAL PRODUCT DATA FOR STRUCTURAL MATERIALS
  - c. CONCRETE AND MASONRY REINFORCING
  - d. HEAVY TIMBER
  - e. STEEL FABRICATION AND MISCELLANEOUS METALS
2. SUBMITTALS SHALL BE REVIEWED AND COORDINATED PRIOR TO SUBMITTING TO THE ARCHITECT. EACH SHOP DRAWING SUBMITTED SHALL BE STAMPED INDICATING REVIEW BY THE CONSTRUCTION MANAGER, CONTRACTOR AND REVIEW BY THE ARCHITECT SHALL NOT BEGIN UNTIL THIS IS COMPLETE. WORK SHALL NOT BEGIN WITHOUT REVIEW BY THE ARCHITECT/STRUCTURAL ENGINEER.
3. SUBMITTALS SHALL BE REVIEWED BY THE ARCHITECT/STRUCTURAL ENGINEER FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. NOTATIONS MADE BY THE ARCHITECT/STRUCTURAL ENGINEER ON THE SHOP DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM COMPLYING WITH THE REQUIREMENTS OF THE DRAWINGS.
4. FOR ADDITIONAL INFORMATION ON REQUIRED SUBMITTALS, SEE INDIVIDUAL MATERIAL SECTIONS.

EARTHWORK

1. FOUNDATION DESIGN IS BASED ON THE GEOTECHNICAL REPORT DATED 08/16/2022 BY TEAM SERVICES. REPORT IS ON FILE WITH THE ARCHITECT.
2. SOIL PROPERTIES PER THE GEOTECHNICAL REPORT:
- ALLOWABLE NET SOIL BEARING PRESSURE: FOOTINGS
- 2,000 PSF +33% IF WIND LOADS ARE CONSIDERED WITHIN THE CONTROLLING CASE
- 6"-0" (CONCESSIONS AND BATTING CAGES) BELOW EXISTING GRADE 10'-4" (GRANDSTAND AND DUGOUT) BELOW EXISTING GRADE 10'-4" (FIELD EQUIPMENT) BELOW EXISTING GRADE 3'-6" (UNEARTHED)
- ANTICIPATE DEPTH TO ALLOWABLE SOIL BEARING:
- FROST DEPTH
3. 791.10 CIVIL GRADING TRANSLATES TO 100'-0" IN STRUCTURAL DRAWINGS.

4. ALL EXCAVATIONS SHALL BE PROPERLY AND SAFELY BACKFILLED. CONTRACTOR SHALL BRACE OR PROTECT ALL WALLS BELOW GRADE FROM LATERAL LOADS UNTIL SUPPORTING FLOORS ARE COMPLETELY IN PLACE AND HAVE ATTAINED 7-DAY STRENGTH MINIMUM. BACKFILLING IS NOT PERMITTED FOR FOUNDATION WALLS UNTIL SUPPORTED SLAB TOP AND BOTTOM IS IN PLACE OR THE WALL IS ADEQUATELY BRACED TO RESIST LATERAL LOADS. CONTRACTOR SHALL PROVIDE FOR DESIGN, PERMITS, AND INSTALLATION OR SHORING AND/OR SHEETING.
5. CONTRACTOR SHALL PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM SURFACE WATER, GROUND WATER OR SEEPAGE. FRESH GROUND WATER WAS NOT ENCOUNTERED IN THE BORINGS. DETAILS OF GROUND WATER INFORMATION CAN BE OBTAINED FROM THE ABOVE-MENTIONED GEOTECHNICAL REPORT. IF GROUND WATER SHOULD OCCUR DURING EXCAVATION, SPECIAL PROCEDURES SHALL BE IMPLEMENTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
6. WHERE THERE IS NOT SUFFICIENT SPACE FOR SLOPED EMBANKMENTS, SHORING WILL BE REQUIRED. SEE THE GEO-TECHNICAL REPORT FOR INFORMATION REGARDING THE DESIGN AND INSTALLATION OF THE SHORING. SHORING THAT IS NOT PART OF THE PERMANENT BUILDING SUPPORT IS THE CONTRACTOR'S RESPONSIBILITY AND OUTSIDE THIS PERMIT.
7. CONTRACTOR SHALL PROVIDE FOR SHORING AND LATERAL BRACING FOR ALL PROPOSED OPERATIONS FOR FILL MATERIAL OR BURIED STRUCTURES SUCH AS CESSPOOLS, CISTERNS AND FOUNDATIONS. IF ANY SUCH MATERIAL OR STRUCTURES ARE FOUND, ARCHITECT/ENGINEER SHALL BE NOTIFIED IMMEDIATELY. ALL ABANDONED FOUNDATIONS, UTILITIES AND OTHER STRUCTURES THAT INTERFERE WITH NEW CONSTRUCTION SHALL BE REMOVED.
8. ALL FOOTINGS AND SLABS ON GRADE SHALL BE PLACED ONTO FIRM UNDISTURBED SOIL OR CONTROLLED COMPACTED FILL, REMOVING ANY EXISTING FILL, ORGANIC MATERIAL, OR UNSUITABLE SOILS, AS RECOMMENDED BY THE GEOTECHNICAL REPORT. EXPOSED NATURAL SOIL SHALL BE PROOF ROLLED BELOW SLABS ON GRADE.
9. THE PREPARATION OF THE SUBGRADE FOR THE SLAB ON GRADE SHALL BE IN STRICT ACCORDANCE WITH THE PROJECT GEOTECHNICAL REPORT REFERENCED ABOVE. THE CONTRACTOR SHALL DIRECT QUESTIONS REGARDING THE SUBGRADE PREPARATION REQUIREMENTS TO THE GEOTECHNICAL ENGINEER.
10. FOUNDATION ELEVATIONS SHOWN DESIGNATE A MINIMUM DEPTH WHERE AN ADEQUATE SOIL BEARING PRESSURE IS EXPECTED. FOOTINGS, PIERS AND/OR WALLS SHALL BE LOWERED OR EXTENDED AS REQUIRED TO REACH SOIL MEETING THE DESIGN BEARING PRESSURE.
11. BACKFILL FOR STRUCTURAL BEARING, PAVEMENTS AND OTHER CRITICAL BACKFILL AREAS WITHIN THE BUILDING AREA SHALL BE MECHANICALLY COMPACTED IN 12" LAYERS TO 95% MAXIMUM DRY DENSITY PER ASTM D698 AND TO THE APPROVAL OF THE INSPECTION AGENCY. BACKFILL ADJACENT TO STRUCTURES NOT SUPPORTING OTHER STRUCTURES OR PAYMENTS SHALL BE MECHANICALLY COMPACTED IN 12" LAYERS TO 95% MAXIMUM DRY DENSITY PER ASTM D698 AND TO THE APPROVAL OF THE INSPECTION AGENCY.
12. THE MOISTURE CONTENT OF ONSITE CLAYEY SOILS AT THE TIME OF COMPACTION SHALL BE BETWEEN 2-8% ABOVE OPTIMUM MOISTURE CONTENT.
13. ANY REQUIRED IMPROVE FILL SOIL SHALL HAVE A LOW POTENTIAL FOR EXPANSION AND SHALL BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO IMPORTING.

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE AMERICAN CONCRETE INSTITUTE 'ACI DETAILING MANUAL' (SP-066) EXCEPT AS OTHERWISE SHOWN, NOTED, OR SPECIFIED.
2. CONCRETE REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO THE FOLLOWING STANDARDS:
- DEFORMED BARS ASTM A615, GR 60 Fy = 60 KSI
- WELDED WIRE REINFORCING ASTM A106, GR 60 Fy = 65 KSI
- WELDABLE BARS, DEFORMED ASTM A706, GR 60 Fy = 80 KSI
3. MINIMUM CONCRETE COVER SHALL BE PROVIDED AS FOLLOWS TO THE OUTERMOST REINFORCING BARS:
- CAST AGAINT AND PERMANENTLY IN CONTACT WITH GROUND 3" EXPOSED TO WEATHER OR IN CONTACT WITH GROUND 2" 8" BARS OR LARGER 1 1/2" 8" BARS OR SMALLER 1 1/2" NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND 1 1/2" SLABS, JOIST AND WALLS WITH #14 AND #18 BARS 1 1/2" SLABS, JOISTS AND WALLS WITH #11 BARS OR SMALLER 3/4" PEDESTALS 1 1/2" BOUNDARY ELEMENTS 1 1/2"
4. ALL REINFORCING IN CONCRETE USED FOR THE CONTAINMENT OF WATER SHALL BE HOT-DIP GALVANIZED OR EPOXY-COATED
5. WELDING OF REINFORCING BARS TO BE IN ACCORDANCE WITH AWS D1.4
6. SUPPORTS FOR REINFORCEMENT SHALL HAVE CLASS 2 PROTECTION AS DEFINED IN THE CRSI MANUAL OF STANDARD PRACTICE, UNLESS OTHERWISE NOTED
7. SUPPORTS FOR COATED REINFORCEMENT SHALL HAVE CLASS 1 PROTECTION AS DEFINED IN THE CRSI MANUAL OF STANDARD PRACTICE, UNLESS OTHERWISE NOTED
8. ALL WELDED WIRE REINFORCING (WWR) SHALL BE LAPPED 2 TIMES AT EDGES AND ENDS
9. CONTINUOUS HORIZONTAL REINFORCING SHALL BE LAPPED AT MIDSPAN FOR TOP BARS AND DIRECTLY OVER SUPPORTS FOR BOTTOM BARS. AT DISCONTINUOUS ENDS, THE TOP STEEL SHALL BE BENT DOWN 12 BAR DIAMETERS OR 12" MINIMUM, WHICHEVER IS GREATER
10. WHERE REINFORCEMENT LENGTH IS SPECIFIED, NO SPLICES ARE PERMITTED WITHIN THE SPECIFIED LENGTH WITHOUT APPROVAL BY THE STRUCTURAL ENGINEER
11. DOVELS BETWEEN FOOTINGS AND WALLS SHALL BE THE SAME GRADE, SIZE AND SPACING OR NUMBER AS THE VERTICAL REINFORCING, RESPECTIVELY, UNLESS OTHERWISE NOTED. PROVIDE FOUNDATION DOVELS TO MATCH SIZE AND SPACING OF WALL OR COLUMN REINFORCEMENT. EXTEND DOVELS A LAP SPICE LENGTH INTO WALL OR COLUMN AND TERMINATE WITH STANDARD HOOK AT BOTTOM OF FOOTING, UNLESS OTHERWISE NOTED.
12. REINFORCING IN WALL FOOTINGS AND GRADE BEAMS BETWEEN COLUMNS SHALL BE DEVELOPED (Ld) INTO COLUMN FOOTINGS
13. CUTTING OF REINFORCING WHICH CONFLICTS WITH EMBEDDED OBJECTS OR SLEEVES IS NOT ACCEPTABLE
14. REINFORCING BARS SHALL BE BENT COLD, AND NO METHOD OF FABRICATION SHALL BE USED WHICH WOULD BE INJURIOUS TO THE MATERIAL. HEATING OF BARS FOR BENDING IS NOT PERMITTED
15. FIELD WELDING OR BENDING OF REINFORCING IS NOT PERMITTED EXCEPT AS INDICATED ON THE DRAWINGS OR AS APPROVED BY THE STRUCTURAL ENGINEER
16. USE TEMPLATES TO SET ALL EMBEDDED ANCHOR BOLTS, LEVELING PLATES, AND DOVEL BARS AS REQUIRED ON THE DRAWINGS
17. SUBMIT SHOP DRAWINGS FOR FABRICATION AND PLACEMENT OF REINFORCING STEEL. INCLUDE SCHEDULES AND DIAGRAMMS OF BENT BARS AND SHOW ARRANGEMENT OF REINFORCEMENT, INCLUDING CONCRETE COVER. STRUCTURAL ENGINEER'S REVIEW WILL BE FOR CONFORMANCE WITH DESIGN REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING DIMENSIONS AND QUANTITIES
18. ALL CONCRETE NOT OTHERWISE SPECIFIED SHALL BE REINFORCED TO THE MINIMUM REQUIREMENTS OF ACI 318.
19. BAR SPLICES SHALL BE PROVIDED WHERE INDICATED ON THE DRAWINGS. ALL SPLICES SHALL BE CLASS 'B' PROVIDED IN ACI 318. IF SPICE LENGTH IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTH (IN INCHES) AS FOLLOWS:

3000 PSI CONCRETE		4000 PSI CONCRETE	
BAR SIZE	OTHER	TOP	OTHER
#3	22	28	19
#4	28	38	25
#5	36	47	31
#6	43	56	41
#7	63	81	71
#8	72	93	81
#9	81	105	94

LAP LENGTHS ASSUME CLEAR SPACING BETWEEN BARS OF 2 BAR DIAMETERS, AND A MINIMUM COVER OF 1 BAR DIAMETER. FOR DEVELOPMENT LENGTHS (Ld) DIVIDE BY 1.3. TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 1'-0" FRESH CONCRETE BELOW BAR

CAST-IN-PLACE CONCRETE

1. ALL CONCRETE WORK SHALL CONFORM TO THE CORRESPONDING EDITION OF THE AMERICAN CONCRETE INSTITUTE PUBLICATIONS: ACI 117, ACI 301, ACI 305.1, ACI 306.1, ACI 308.1, ACI 318 AND SP-066, UNLESS OTHERWISE NOTED.
2. CONCRETE MATERIALS SHALL CONFORM TO:
- CEMENT ASTM C150, TYPE I OR II
- FLY ASH ASTM C618, TYPE C OR F
- FINE AND COARSE AGGREGATE ASTM C33
- WATER POTABLE
- AIR-ENTRAINING ADMIXTURE ASTM C260
- WATER REDUCING ADMIXTURE ASTM C494
3. CONCRETE STRENGTHS SHALL CONFORM TO:

INTENDED USE	STRENGTH (PSI)
FOOTINGS	3000
FOUNDATIONS	4000
SLAB ON GRADE	4000
UNLESS OTHERWISE NOTED	4000

NORMAL-WEIGHT 28-DAY STRENGTH UNLESS OTHERWISE NOTED.

4. THE MODULUS OF ELASTICITY OF ALL CONCRETE SHALL EXCEED 57,000 SQRT(f'c) FOR NORMAL-WEIGHT CONCRETE OR 33,000 SQRT(f'c) FOR LIGHTWEIGHT CONCRETE.

5. SLAB-ON-GRADE CONSTRUCTION: LOCATE SAW-CUT CONTROL JOINTS ALONG COLUMN LINES WITH INTERMEDIATE JOINTS SPACED PER THE TABLE BELOW, UNLESS OTHERWISE NOTED. SLAB PANELS SHALL HAVE A MAXIMUM LENGTH TO WIDTH RATIO OF 1.5:1. PROVIDE ADDITIONAL CONTROL JOINTS AT ALL RE-ENTRANT CORNERS.

THICKNESS (IN)	MAXIMUM JOINT SPACING EACH WAY (FT)
4 AND 5	10

6. CROSS REFERENCE ARCHITECTURAL AND STRUCTURAL DRAWINGS TO ENSURE PROPER DIMENSIONS AND PLACEMENT OF ALL ANCHOR BOLTS, INSERTS, NOTCHES, AND EDGES OF WALLS/FOUNDATIONS PRIOR TO PLACING CONCRETE.

7. UNLESS OTHERWISE NOTED, ALL FOOTINGS SHALL BE CENTERED UNDER PIERS, PIERS OR COLUMNS

8. CONSTRUCTION JOINTS SHALL BE THOROUGHLY ROUGHENED TO 1/4" AMPLITUDE BY SAND BLASTING OR MECHANICAL MEANS. CLEAN BEFORE POUR. LOCATION TO BE APPROVED BY THE STRUCTURAL ENGINEER. SUBMIT LOCATION PLAN OF ALL PROPOSED JOINTS NOT INDICATED ON DRAWINGS FOR APPROVAL PRIOR TO BEGINNING WORK.

9. PRIOR TO PLACING CONCRETE, THE CONTRACTOR SHALL ENSURE ALL REINFORCING AND EMBEDMENTS, INCLUDING COLUMN ANCHOR BOLTS, ARE PROPERLY LOCATED AND SECURELY TIED IN PLACE.

10. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL PENETRATIONS THROUGH CONCRETE BEFORE PLACING. SECURE SLEEVES TO PREVENT MOVEMENT DURING PLACING OPERATIONS. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS.

11. CONFIRM WITH ARCHITECT THAT MATERIALS TO BE EMBEDDED ARE SUITABLE FOR EMBEDMENT IN CONCRETE.

12. CONDUIT, PIPES, AND SLEEVES EMBEDDED IN CONCRETE SHALL CONFORM TO REQUIREMENTS OF ACI 318, SECTIONS 20.7 AND 26.8.

13. DO NOT PLACE VERTICAL CONDUIT IN CONCRETE COLUMNS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER

14. NO ALUMINUM SHALL BE ALLOWED IN THE CONCRETE WORK UNLESS COATED TO PREVENT ALUMINUM-CONCRETE REACTION.

15. PROJECTING CORNERS OF BEAMS, WALLS, COLUMNS, ETC., SHALL BE FORMED WITH A 3/4 INCH CHAMFER, UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS.
16. SLOPE SLABS TO DRAINS OR FOR POSITIVE DRAINAGE IF NO DRAINS ARE PRESENT AND PROVIDE DEPRESSIONS WHERE SHOWN ON THE PLAN AND/OR ARCHITECTURAL DRAWINGS WITHOUT REDUCING THE THICKNESS OF SLAB INDICATED. FOR SLAB-ON-GRADE DEPRESSIONS GREATER THAN 1 INCH, SEE DETAILS FOR ADDITIONAL REINFORCING.
17. INTERNALLY VIBRATE ALL CAST-IN-PLACE CONCRETE EXCEPT SLAB-ON-GRADE WHICH NEED ONLY BE VIBRATED AROUND UNDER FLOOR DUCTS AND OTHER EMBEDDED ITEMS. VIBRATE TOPS OF COLUMNS
18. CONCRETE SHALL NOT BE PERMITTED TO DROP MORE THAN 5 FEET.
19. IF CONCRETE IS PLACED BY PUMPING, SUPPORT SHALL BE PROVIDED FOR THE HOSE. THE HOSE SHALL NOT BE ALLOWED TO RIDE ON THE REINFORCING AND OTHER EMBEDDED ITEMS.
20. CONCRETE SLABS SHALL BE CURED BY KEEPING CONTINUOUSLY WET FOR 7 DAYS. FORMS FOR CONCRETE SLABS SHALL BE LEFT IN PLACE FOR 7 DAYS OR MAY BE STRIPPED AFTER 3 DAYS AND COATED WITH AN APPROVED CURING COMPOUND.
21. NO LOADS SHALL BE PLACED ON STRUCTURAL CONCRETE SLABS WITHIN 7 DAYS AFTER CONCRETE IS PLACED. AFTER CONCRETE IS PLACED, IN NO CASE SHALL THE SUPERIMPOSED CONSTRUCTION LOADS BE GREATER THAN SPECIFIED DESIGN LIVE LOADS, UNLESS THE WORK IS SHORED.
22. NOTIFY THE ARCHITECT/STRUCTURAL ENGINEER 48 HOURS MINIMUM PRIOR TO ALL POURS.
23. CONTRACTOR SHALL SURVEY ALL CONCRETE WORK WITHIN 48 HOURS OF PLACING CONCRETE TO ENSURE PLACEMENT IS IN ACCORDANCE WITH PROJECT REQUIREMENTS.
24. THE DESIGN AND ENGINEERING OF FORMWORK, SHORING AND RESHORING, AS WELL AS THEIR CONSTRUCTION, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. FORMS SHALL BE DESIGNED TO HAVE SUFFICIENT STRENGTH TO SAFELY WITHSTAND THE LOADS RESULTING FROM PLACEMENT AND VIBRATION OF THE CONCRETE AND SHALL ALSO BE DESIGNED FOR SUFFICIENT RIGIDITY TO MAINTAIN SPECIFIED TOLERANCES. CONTRACTOR SHALL SUBMIT DETAILED FORMWORK SHOP DRAWINGS TO THE ARCHITECT TO BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN CONCEPT ONLY.
25. CORING OF CONCRETE IS NOT PERMITTED UNLESS APPROVED BY THE STRUCTURAL ENGINEER
26. THE PROPOSED MATERIALS AND MIX DESIGN SHALL BE FULLY DOCUMENTED AND REVIEWED BY THE TESTING AGENCY. RESPONSIBILITY FOR OBTAINING THE REQUIRED DESIGN STRENGTH IS THE CONTRACTOR'S. SUBMIT TEST DATA ON EACH PROPOSED MIX FOR REVIEW IN ACCORDANCE WITH THE APPLICABLE TEST CODE. MIXES NOT SUBMITTED WITHOUT THE REQUIRED TEST DATA WILL BE RETURNED WITHOUT REVIEW.

MASONRY

1. CMU CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH TMS 402/602 "BUILDING CODE REQUIREMENTS AND SPECIFICATION FOR MASONRY STRUCTURES".
2. MINIMUM 28-DAY COMPRESSIVE STRENGTHS FOR CMU CONSTRUCTION SHALL BE: DESIGN ASSEMBLY STRENGTH, Fm
- INDIVIDUAL CONCRETE MASONRY UNITS GROUT
4. CMU MATERIALS SHALL CONFORM TO THE FOLLOWING STANDARDS: CONCRETE MASONRY UNITS MORTAR
- 2000 PSI 2800 PSI
- JOINT REINFORCING PER ASTM A62 FOR SINGLE-WYTHE CMU WALLS, CMU CAVITY WALLS, AND MULTI-WYTHE COMPOSITE CMU WALLS SHALL BE HOT-DIP GALVANIZED PER ASTM A153, CORROSION RESISTANT HORIZONTAL JOINT REINFORCING WITH THE FOLLOWING GAUGE AND VERTICAL SPACING: RUNNING BOND ASTM C475 BELOW GRADE WALLS ASTM A82 OTHER THAN RUNNING BOND
6. ALL LOAD BEARING CMU WALLS TO HAVE FULL MORTAR BED, HEAD, AND COLLAR JOINTS.
7. GROUT SOLD ALL JAMBS FULL HEIGHT IN LOAD BEARING CMU WALLS TO UNDERSIDE OF LINTEL PLUS ONE CELL BEYOND BEARING LENGTH @ 16" OC (ALL WIDTHS)
8. PROVIDE MINIMUM 1 INCH GROUT BETWEEN MAIN REINFORCING AND/OR BOLTS AND CMU UNIT FACE. VERTICAL REINFORCEMENT SHALL BE CENTERED IN WALL, UNLESS 8" OC OTHERWISE NOTED. VERTICAL REINFORCING BARS SHALL BE SECURELY BE HELD IN POSITION BY WIRE TIES OR OTHER APPROVED MEANS TO ENSURE DESIGN LOCATION AND LAP. PLACE BARS AND LAP PRIOR TO GROUTING.
9. HORIZONTAL BOND BEAM AND VERTICAL REINFORCING SHALL BE CONTINUOUS UNLESS OTHERWISE NOTED
10. CELLS SHALL BE IN VERTICAL ALIGNMENT. DOVELS IN FOOTINGS SHALL BE SET TO ALIGN WITH VERTICAL REINFORCING STEEL
11. ALL CELLS CONTAINING REINFORCEMENT SHALL BE FILLED SOLD WITH GROUT.
12. COORDINATE ANY UNIDENTIFIED PIPE OR DUCT PASSING THROUGH STRUCTURAL CMU WALLS WITH TYPICAL DETAILS, UNLESS OTHERWISE NOTED
17. SEE ARCHITECTURAL DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN, JOINT TYPE. ALL BLOCK SHALL BE LAID IN RUNNING BOND, UNLESS OTHERWISE NOTED.
18. BAR SPLICES: SPlice REINFORCING WHERE INDICATED ON THE DRAWINGS. IF SPlice IS NOT GIVEN ON THE DRAWINGS, PROVIDE LAP LENGTHS (IN INCHES) AS FOLLOWS. BARS LARGER THAN #9 SHALL BE MECHANICALLY SPLICED.

BAR SIZE	MINIMUM LAP SPlice LENGTH
#3	27
#4	36
#5	45
#6	54

LINTELS

1. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES IN MASONRY CONSTRUCTION. LINTELS ARE NOT REQUIRED OVER OPENINGS 12" WIDE OR LESS THAT IS AT LEAST 1 COURSE BELOW THE BOND BEAM AT THE TOP OF WALL.
2. PENETRATIONS NOT IDENTIFIED ON THE DOCUMENTS ARE TO BE TREATED IN A MANNER SIMILAR TO THE IDENTIFIED LOCATIONS.
3. LINTELS IN NON-BEARING WALLS SHALL BE SIZED PER THE FOLLOWING:

SPAN, L		STEEL OPTION (FOR EX. 4" OF MASONRY) *
0' < L ≤ 4'-0"	L3 1/2x3 1/2x1/4	
4'-0" < L ≤ 6'-0"	L4x3 1/2x5/16 (LV)	
6'-0" < L ≤ 8'-0"	L5x3 1/2x5/16 (LV)	
8'-0" < L ≤ 10'-0"	L6x3 1/2x3/8 (LV)	

SPAN, L	8" BLOCK
0' < L ≤ 4'-0"	8" DEEP W/ (1) #4 BOLT
4'-0" < L ≤ 6'-0"	8" DEEP W/ (1) #4 BOLT
6'-0" < L ≤ 8'-0"	16" DEEP W/ (1) #4 BOLT
8'-0" < L ≤ 10'-0"	16" DEEP W/ (2) #4 BOLT

\*ALL ANGLES THAT ARE BACK-TO-BACK SHALL BE WELDED TOP AND BOTTOM 3" @ 12" OC MINIMUM.

4. ALL LINTELS SHALL HAVE A MINIMUM OF 8" END BEARING AND DO NOT REQUIRE BEARING PLATES UNLESS OTHERWISE NOTED.
5. TEMPORARY SHORING OF MASONRY LINTELS MUST BE PROVIDED UNTIL MASONRY HAS REACHED 75% OF DESIGN STRENGTH.
6. ALL STEEL LINTELS IN EXTERIOR WALL CONSTRUCTION SHALL BE HOT-DIP GALVANIZED, UNLESS OTHERWISE NOTED.

STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "DETAILING FOR STEEL CONSTRUCTION" AND FABRICATED AND ERECTED IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS"
2. STRUCTURAL STEEL SHALL CONFORM TO ASTM STANDARDS AS NOTED BELOW:
- WIDE FLANGE SHAPES ASTM A992
- OTHER ROLLED SHAPES ASTM A36
- HSS SECTION, SQUARE ASTM A500, GR C
- BASE AND CONNECTION PLATES ASTM A36 A572
- ANCHOR RODS ASTM F1554, GR 36 SS
- HIGH STRENGTH BOLTS ASTM F3125, GR A325 Fy = 50 KSI
- HIGH STRENGTH TWIST-OFF BOLTS ASTM F3125, GR F1882 Fy = 50 KSI
- HEAVY HEX NUTS ASTM A563 Fy = 36 KSI
- WASHERS ASTM F436 Fy = 50 KSI
- HEADED STUD ANCHORS ASTM A108, TYPE B Fy = 36 KSI
8. ELECTRODES FOR ARC WELDING AWS E1, E70XX Fy = 36 KSI
9. HIGH STRENGTH BOLTS SHALL BE INSTALLED IN ACCORDANCE WITH AISC "C" KSI "SPECIFICATIONS FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS": SEE DETAILS FOR BOLT SIZE AND MATERIAL, ASTM DESIGNATION.
10. ALL BOLTED CONNECTIONS SHALL BE GRADE A325N BEARING TYPE BOLTS, UNLESS OTHERWISE NOTED. ALL BOLTS SHALL BE INSTALLED TO A MINIMUM "SNUG TIGHT" CONDITION, UNLESS OTHERWISE NOTED.
11. WELD LENGTHS INDICATED ON THE DRAWINGS ARE THE NET EFFECTIVE LENGTH REQUIRED, WHERE WELD LENGTH IS NOT SPECIFIED, PROVIDE WELD ALONG ENTIRE INTERSECTION OF THE JOINED PARTS. WHERE FLETCHER WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM WELD SIZE AS SPECIFIED IN AISC.
12. ALL WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY CERTIFIED WELDERS WITH EXPERIENCE AND CERTIFICATION IN THE TYPES OF WELDING CALLED FOR. WELDERS SHALL HAVE BEEN RECENTLY QUALIFIED AS PRESCRIBED IN "QUALIFICATION PROCEDURES" OF THE AMERICAN WELDING SOCIETY (AWS).
13. SPLICING OF STEEL MEMBERS WHERE NOT DETAILED ON THE DRAWINGS IS PROHIBITED WITHOUT THE PRIOR APPROVAL OF THE STRUCTURAL ENGINEER AS TO LOCATION, TYPE OF SPlice AND CONNECTION TO BE MADE.
14. ALL STEEL EXPOSED TO WEATHER OR AS NOTED ON PLAN SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 G60. ABRADED AREAS TO BE TOUCHED UP WITH COLD GALVANIZING COMPOUND IN ACCORDANCE WITH ASTM A780.
15. ALL GALVANIZED HOLLOW SECTIONS SHALL HAVE WELDED CAP PLATES TO SEAL EXPOSED ENDS
16. CUTS, HOLES, OPENINGS, ETC., REQUIRED IN STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES SHALL BE SHOWN ON THE SHOP DRAWINGS. BURNING OF HOLES AND CUTS IN THE FIELD SHALL NOT BE ALLOWED, EXCEPT BY WRITTEN AUTHORIZATION FROM THE STRUCTURAL ENGINEER.
17. FURNISH AND INSTALL MISCELLANEOUS STEEL (CURBS, HANGERS, EXPANSION JOINT ANGLES, STRUTS, ETC.) AS CALLED FOR OR AS NECESSARY PER ARCHITECTURAL AND MECHANICAL/ELECTRICAL DRAWINGS.
18. GROUT FOR BASE AND BEARING PLATES SHALL BE A NON-SHRINK, NON-METALLIC PRODUCT. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 7000 TO 10,000 PSI. SHALL NOT BE GROUT PRIOR TO APPLYING SIGNIFICANT LOADING TO MEMBER.
19. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS OF ALL STRUCTURAL STEEL FOR ARCHITECT/STRUCTURAL ENGINEER'S REVIEW BEFORE FABRICATION.

WOOD

1. STRUCTURAL SHEATHING ALL PANELS TO BE PLYWOOD OF MINIMUM 5 PLY CONSTRUCTION. EACH PANEL SHALL BEAR THE QUALITY TRADEMARK STAMP OF THE AMERICAN PLYWOOD ASSOCIATION (APA).
- B. ROOFS:
- i. GRADE:
- a. 5/8", "C-D", GROUP 1, SPAN INDEX 40/20, EXPOSURE 1
  - ii. PANEL EDGE SUPPORT SHALL BE EITHER TONGUE-AND-GROOVE EDGE, PANEL JOIST OR MEYER FLOOR JOIST SUPPORT OR LUMBER PACKING (MIN 2x4 SIZE).
- C. MINIMUM NAILING REQUIREMENTS UNLESS OTHERWISE NOTED:
- i. ROOF:
- a. NAIL SIZE: USE 0.148" x 2 1/4" GUN NAIL
  - b. SPACING:
    - 1) PANEL EDGES @ 6" OC
    - 2) INTERIOR BEARINGS @ 12" OC
  - ii. PROVIDE MINIMUM 2x SOLD BLOCKING AT PANEL EDGES OF WALL SHEATHING WHERE REQUIRED BY SHEAR WALL SCHEDULE. LOCATE AT PANEL EDGES OF ROOF/FLOOR SHEATHING WHERE REQUIRED ON PLAN.
  - iii. SHEATHING FASTENERS SHALL BE DRIVEN FLUSH BUT SHALL NOT FRACTURE THE FACE PLY.
  - iv. HOT-DIP GALVANIZED NAILS SHALL BE USED WHEN NAILING TO PRESSURE TREATED MEMBERS.
- D. PANEL LAYOUT:
- i. LONG DIMENSION OF PANEL TO BE PERPENDICULAR TO FRAMING MEMBERS. EXCEPT PANELS AT WALLS MAY BE INSTALLED WITH LONG DIMENSION PARALLEL TO STUDS UNLESS OTHERWISE NOTED.
  - ii. END JOINTS IN ADJACENT RUNS SHALL BE STAGGERED 4 FEET.
  - iii. MINIMUM PANEL WIDTH SHALL BE 12".
  - iv. EDGES OF ALL PANELS LESS THAN 24" WIDE SHALL BE BACKED BY BLOCKING (MIN FACE PLY SIZE).
  - v. PROVIDE 1/8" GAP AT ALL SHEATHING JOINTS FOR FLOORS AND WALLS UNLESS OTHERWISE NOTED ON PLAN OR DETAILS.
- E. IF SHEATHING PANELS EXHIBIT SWELLING, NAIL HEAD PULP THROUGH, SOFT SPOTS OR OTHER CONDITIONS WHEREBY REDUCING THE STRUCTURAL CAPACITY, REMOVE AND REPLACE.
2. LUMBER:
- A. COMPLY WITH ANSI/APC NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION
- B. ALL FRAMING LUMBER SHALL BE DOUGLAS FIR-LARCH, GRADED BY WESTERN WOOD PRODUCTS ASSOCIATION. NOTED ALLOWABLE STRESSES ARE MINIMUMS AND FOR NONREPETITIVE USES PRIOR TO ALLOWABLE STRESS INCREASES AND CONFORMING TO THE NDS AS FOLLOWS:
- 2" THICK, 4" AND WIDER NO 2 Fb = 900 PSI, E = 1,800,000 PSI
- 5" THICK, 5" AND WIDER NO 1 Fb = 1350 PSI, E = 1,800,000 PSI
- C. ALL LUMBER STRESSES SHOWN ABOVE ARE FOR VISUALLY STRESS-RATED LUMBER USED AT 19% MAXIMUM MOISTURE CONTENT WHEN BUILDING IS ENCLOSED, SINGLE MEMBER USE. ALL LUMBER SHALL BE GRADE MARKED.
- D. PROVIDE A MINIMUM OF 1 1/2" JOIST BEARING UNLESS OTHERWISE NOTED.
- E. NOTCHING OR DRILLING HOLES IN LUMBER FRAMING MEMBERS MUST BE AS APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO CONSTRUCTION.
3. FASTENING:
- A. ALL NAILS SHALL BE COMMON WIRE NAILS. AT ALL EXPOSED NAILING TO WEATHER OR INSTALLED IN PRESSURE TREATED WOOD (E.G. DECKING & SIDING), USE HOT-DIP GALVANIZED NAILS. HOT-DIP GALVANIZED OR CASING NAILS IS NOT ALLOWED. NAIL DESIGNATIONS SHALL MEET THE FOLLOWING LENGTHS AND DIAMETERS:
- i. 6d - 2" x 0.113"
  - ii. 8d - 2 1/2" x 0.131"
  - iii. 10d - 3" x 0.148"
  - iv. 12d - 3 1/4" x 0.148"
  - v. 16d - 3 1/2" x 0.162"
  - vi. 20d - 4" x 0.189"
- B. THE NAILING SCHEDULE AND STRUCTURAL DETAILS ARE BASED ON THE USAGE OF "COMMON" WIRE NAILS EXCEPT THAT 16d "SINKER" NAILS (3 1/4" x 0.148") MAY BE USED WHERE 16d IS SPECIFIED. IF GUN NAILS ARE USED, THE CONTRACTOR SHALL SUBMIT NAIL DATA FOR REVIEW PRIOR TO BEGINNING CONSTRUCTION.
- C. THE NUMBER AND SIZE OF NAILS CONNECTING WOOD MEMBERS SHALL NOT BE LESS THAN THE FOLLOWING SCHEDULE:

CONNECTION		FASTENING
JOIST TO SILL, TOP PLATE OR GIRDER	(3) 8d TOENAILS	
BRIDGING OR BLOCKING BETWEEN JOISTS OR TRUSSES NOT AT WALL TOP PLATE	(2) 8d TOENAILS, EACH END OR (2) 16d END NAILS	
SILL PLATE TO JOIST, RIM JOIST OR BLOCKING	16d @ 16" OC, FACE NAIL	
BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE	(3) 8d TOENAILS	
RIM JOIST TO TOP PLATE OR FRAMING BELOW	8d @ 6" OC, TOP NAIL	
JOIST TO RIM JOIST	(3) 16d END NAILS	
TOP PLATE LAPS AT CORNERS AND INTERSECTIONS	(2) 16d, FACE NAIL	
BUILT-UP HEADER	16d @ 16" OC ALONG EACH EDGE	
RAFTER OR ROOF TRUSS TO PLATE	(3) 10d TOENAILS	
D. USE OF MACHINE NAILING IS SUBJECT TO A SATISFACTORY JOBSITE DEMONSTRATION AND THE APPROVAL OF THE ARCHITECT/STRUCTURAL ENGINEER.		
E. CONTRACTOR TO AVOID SPLITTING WOOD MEMBERS DURING FASTENER INSTALLATION. FASTENERS TO BE DRIVEN WITH NO MORE THAN 1/8" OF AN INCH		



TESTING, INSPECTIONS, AND OBSERVATIONS

1. THE STRUCTURAL ENGINEER DOES NOT PROVIDE INSPECTIONS OF CONSTRUCTION. STRUCTURAL ENGINEER MAY MAKE PERIODIC OBSERVATIONS OF THE CONSTRUCTION. SUCH OBSERVATIONS SHALL REPLACE REQUIRED INSPECTIONS BY THE GOVERNING AUTHORITIES OR SERVE AS "SPECIAL INSPECTIONS" AS MAY BE REQUIRED BY CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
2. SEE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS OR SPECIFICATIONS FOR TESTING AND INSPECTION REQUIREMENTS OF NON-STRUCTURAL COMPONENTS.
3. DUTIES OF THE INSPECTION AGENCY PER IBC CHAPTER 17:
- SUBMIT A PROPOSED TESTING AND INSPECTION PROGRAM TO THE OWNER, THE ARCHITECT AND THE STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL AT LEAST TWO WEEKS PRIOR TO COMMENCEMENT OF WORK.
  - PERFORM ALL TESTING AND INSPECTION REQUIRED PER APPROVED TESTING AND INSPECTION PROGRAM.
  - FURNISH INSPECTION REPORT TO THE BUILDING OFFICIAL, THE OWNER, THE ARCHITECT, STRUCTURAL ENGINEER AND THE GENERAL CONTRACTOR. THE REPORTS SHALL BE COMPLETED AND FURNISHED WITHIN 48 HOURS OF INSPECTED WORK.
  - SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTION AGENCY'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS.
4. SPECIAL INSPECTIONS AND TESTS ARE REQUIRED FOR MATERIALS AND SYSTEMS REQUIRED TO BE INSTALLED IN ACCORDANCE WITH ADDITIONAL MANUFACTURER'S INSTRUCTIONS THAT PRESCRIBE REQUIREMENTS NOT CONTAINED IN CHAPTER 17 OF THE IBC OR IN STANDARDS REFERENCED BY THE IBC. THESE ITEMS INCLUDE:
- POST-INSTALLED ANCHORS - INSPECTION
  - THE FOLLOWING WORK SHALL BE INSPECTED BY THE SPECIAL INSPECTOR UNLESS SPECIFICALLY WAIVED BY THE BUILDING OFFICIAL.

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
<b>CONCRETE CONSTRUCTION</b>				
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT		X	ACI 318: CH 20, 25.2, 28.3, 28.2.1-28.6.3	1908.4
2. MATERIAL IDENTIFICATION OF REINFORCING (TYPE/GRADE)		X	AISC 341: TABLE J9.1	
3. REINFORCING STEEL HAS NOT BEEN REBENT IN THE FIELD		X	AISC 341: TABLE J9.1	
4. REINFORCING STEEL HAS BEEN TIED AND SUPPORTED AS REQUIRED		X	AISC 341: TABLE J9.1	
5. REINFORCING STEEL CLEARANCES HAVE BEEN PROVIDED		X	AISC 341: TABLE J9.1	
6. COMPOSITE STEEL MEMBERS HAVE REQUIRED SIZE		X	AISC 341: TABLE J9.1	
7. REINFORCING BAR WELDING:				
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706		X	AWS D1.4	
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16", AND	X	X	ACI 318: 26.6.4	
c. INSPECTS ALL OTHER WELDS				
8. INSPECT ANCHORS CAST IN CONCRETE		X	ACI 318: 17.8.2	
9. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS:				
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS	X	X	ACI 318: 17.8.2.4	
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.a		X	ACI 318: 17.8.2	
10. VERIFY USE OF REQUIRED DESIGN MIX		X	ACI 318: CH 19, 26.4.2, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
11. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X		ASTM C172, ASTM C31, ACI 318: 26.5, 26.12	1907.10
12. INSPECT CONCRETE AND SHOTCRETE CURING FOR PROPER APPLICATION TECHNIQUES	X		ACI 318: 26.5	1908.6, 1908.7, 1908.8
13. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X	ACI 318: 26.5.3-26.5.5	1908.9
14. INSPECT PRESTRESSED CONCRETE FOR:				
a. APPLICATION OF PRESTRESSING FORCES; AND	X		ACI 318: 26.11.2	
b. GROUTING OF BONDED PRESTRESSING TENDONS	X			
15. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	X		ACI 318: 26.9	
16. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS		X	ACI 318: 26.11.2	
17. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED		X	ACI 318: 26.11.2(b)	

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	TMS 402	TMS 602
<b>MASONRY CONSTRUCTION - LEVEL 1</b>				
1. PRIOR TO CONSTRUCTION:				
a. VERIFICATION OF COMPLIANCE OF SUBMITTALS		X		ART. 1.5

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
<b>STRUCTURAL STEEL PRIOR TO BOLTING - MINIMUM INSPECTION</b>				
1. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS	O	P	TABLE C-N5-6.1	2.1, 9.1
2. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O	TABLE C-N5-6.1	6.5.1
3. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)	O	O	TABLE C-N5-6.1	2.3.2, 2.7.2, 9.1
4. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL	O	O	TABLE C-N5-6.1	4.8
5. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE PAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS	O	O	TABLE C-N5-6.1	TABLE 6.1(2)
6. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED	P <sup>1</sup>	O <sup>1</sup>	TABLE C-N5-6.1	3, 9.1, 9.3
7. PROTECTION STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS	O	O	TABLE C-N5-6.1	2.2, 8, 9.1

1 DOCUMENT - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORTS NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UPS, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION.

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
<b>STRUCTURAL STEEL AFTER BOLTING - MINIMUM INSPECTION</b>				
1. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P	P	TABLE C-N5-6.3	N/A
<b>VERIFICATION AND INSPECTION TASK</b>				
<b>STRUCTURAL STEEL PRIOR TO WELDING - MINIMUM INSPECTION</b>				
1. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	P	P	TABLE C-N5-4.1	6.3
2. MANUFACTURER CERTIFICATES FOR WELDING CONSUMABLES AVAILABLE	P	P	TABLE C-N5-4.1	6.2
3. MATERIAL IDENTIFICATION	O	O	TABLE C-N5-4.1	6.2
4. WELDER IDENTIFICATION	O	O	TABLE C-N5-4.1	6.4 (WELDER QUALIFICATION)
5. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY)	O	O	TABLE C-N5-4.1	
a. JOINT PREPARATION	O	O	TABLE C-N5-4.1	6.5.2
b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	O	O	TABLE C-N5-4.1	5.22
c. CLEANLINESS (CONDITION OF STEEL SURFACE)	O	O	TABLE C-N5-4.1	5.14
d. TACKING (TACK WELD QUALITY AND LOCATION)	O	O	TABLE C-N5-4.1	5.17
e. BACKING TYPE AND FIT (IF APPLICABLE)	O	O	TABLE C-N5-4.1	5.9, 5.21.1.1
6. FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y- & K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY)	P/O <sup>1</sup>	O	TABLE C-N5-4.1	9.11.2
a. JOINT PREPARATION	P/O <sup>1</sup>	O	TABLE C-N5-4.1	9.11.2
b. DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL)	P/O <sup>1</sup>	O	TABLE C-N5-4.1	9.11.2
c. CLEANLINESS (CONDITION OF STEEL SURFACE)	P/O <sup>1</sup>	O	TABLE C-N5-4.1	9.11.2
d. TACKING (TACK WELD QUALITY AND LOCATION)	P/O <sup>1</sup>	O	TABLE C-N5-4.1	9.11.2
7. CONFIGURATION AND FINISH OF ACCESS HOLES	O	O	TABLE C-N5-4.1	6.5.2, 5.16 (8 SEE AISC 360 SECT. J1.6)

8. FIT-UP OF FILLET WELDS	P/O <sup>1</sup>	O	TABLE C-N5-4.1	
a. DIMENSIONS (ALIGNMENT, GAPS AT ROOT)	P/O <sup>1</sup>	O	TABLE C-N5-4.1	5.21.1
b. CLEANLINESS (CONDITION OF STEEL SURFACES)	P/O <sup>1</sup>	O	TABLE C-N5-4.1	5.14
c. TACKING (TACK WELD QUALITY AND LOCATION)	P/O <sup>1</sup>	O	TABLE C-N5-4.1	5.17
9. CHECK WELDING EQUIPMENT	O	O	TABLE C-N5-4.1	6.2, 5.10
<b>VERIFICATION AND INSPECTION TASK</b>				
<b>STRUCTURAL STEEL DURING WELDING - MINIMUM INSPECTION</b>				
1. USE OF QUALIFIED WELDERS	O	O	TABLE C-N5-4.2	6.4
2. CONTROL AND HANDLING OF WELDING CONSUMABLES	O	O	TABLE C-N5-4.2	6.2
a. PACKAGING	O	O	TABLE C-N5-4.2	5.3.1
b. EXPOSURE CONTROL	O	O	TABLE C-N5-4.2	5.3.2 (FOR SMAW), 5.3.3 (FOR SAW)
3. ENVIRONMENT CONDITIONS	O	O	TABLE C-N5-4.2	
a. WIND SPEED WITHIN LIMITS	O	O	TABLE C-N5-4.2	5.11.1
b. PRECIPITATION AND TEMPERATURE	O	O	TABLE C-N5-4.2	5.11.2
4. WPS FOLLOWED	O	O	TABLE C-N5-4.2	6.3.3, 6.5.2, 5.5, 5.20

a. SETTINGS ON WELDING EQUIPMENT	O	O	TABLE C-N5-4.2	
b. TRAVEL SPEED	O	O	TABLE C-N5-4.2	
c. SELECTED WELDING MATERIALS	O	O	TABLE C-N5-4.2	
d. SHIELDING GAS TYPE/FLOW RATE	O	O	TABLE C-N5-4.2	
e. PREHEAT APPLIED	O	O	TABLE C-N5-4.2	5.6, 5.7
f. INTERPASS TEMPERATURE MAINTAINED (MIN/MAX)	O	O	TABLE C-N5-4.2	
g. PROPER POSITION (F, V, H, OH)	O	O	TABLE C-N5-4.2	
h. INTERMIX OF FILLER METALS AVOIDED UNLESS APPROVED	O	O	TABLE C-N5-4.2	
5. WELDING TECHNIQUES	O	O	TABLE C-N5-4.2	6.5.2, 6.5.3, 5.23
a. INTERPASS AND FINAL CLEANING	O	O	TABLE C-N5-4.2	5.29.1
b. EACH PASS WITHIN PROFILE LIMITATIONS	O	O	TABLE C-N5-4.2	
c. EACH PASS MEETS QUALITY REQUIREMENTS	O	O	TABLE C-N5-4.2	

VERIFICATION AND INSPECTION TASK	QC	QA	MATERIAL STD REFERENCE	AWS D1.1 CLAUSES
<b>STRUCTURAL STEEL AFTER WELDING - MINIMUM INSPECTION</b>				
1. WELDS CLEANED	O	O	TABLE C-N5-4.3	5.29.1
2. SIZE, LENGTH AND LOCATION OF WELDS	P	P	TABLE C-N5-4.3	6.5.1
3. WELDS MEET VISUAL ACCEPTANCE CRITERIA	P <sup>2</sup>	P <sup>2</sup>	TABLE C-N5-4.3	6.5.3
a. CRACK PROHIBITION	P <sup>2</sup>	P <sup>2</sup>	TABLE C-N5-4.3	TABLE 6.1(1)
b. WELD/BASE-METAL FUSION	P <sup>2</sup>	P <sup>2</sup>	TABLE C-N5-4.3	TABLE 6.1(2)
c. CRATER CROSS-SECTION	P <sup>2</sup>	P <sup>2</sup>	TABLE C-N5-4.3	TABLE 6.1(3)
d. WELD PROFILES	P <sup>2</sup>	P <sup>2</sup>	TABLE C-N5-4.3	TABLE 6.1(4), 5.24
e. WELD SIZE	P <sup>2</sup>	P <sup>2</sup>	TABLE C-N5-4.3	TABLE 6.1(8)
f. UNDERCUT	P <sup>2</sup>	P <sup>2</sup>	TABLE C-N5-4.3	TABLE 6.1(7)
g. POROSITY	P <sup>2</sup>	P <sup>2</sup>	TABLE C-N5-4.3	TABLE 6.1(8)
4. ARC STRIKES	P	P	TABLE C-N5-4.3	5.28
5. K-AREA	P <sup>2</sup>	P <sup>2</sup>	TABLE C-N5-4.3	N/A
6. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES	P	P	TABLE C-N5-4.3	5.16, 6.5.2 (8 SEE AISC 360 SECT. J1.6)
7. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED)	P <sup>2</sup>	P <sup>2</sup>	TABLE C-N5-4.3	5.9, 5.30
8. REPAIR ACTIVITIES	P	P <sup>2</sup>	TABLE C-N5-4.3	6.5.3, 5.25
9. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P	TABLE C-N5-4.3	6.5.4, 6.5.5
10. PLACEMENT OF REINFORCING OR CONTOURING FILLET WELDS (IF REQUIRED)	P <sup>2</sup>	P <sup>2</sup>	TABLE C-N5-4.3	6.5.4, 6.5.5

1 FOLLOWING PERFORMANCE OF THIS INSPECTION TASK FOR TEN WELDS TO BE MADE BY A GIVEN WELDER, WITH THE WELDER DEMONSTRATING UNDERSTANDING OF REQUIREMENTS AND POSSESSION OF THE SKILLS TO VERIFY THESE ITEMS, THE PERFORM DESIGNATION OF THIS TASK SHALL BE REDUCED TO OBSERVE, AND THE WELDER SHALL PERFORM THIS TASK. SHOULD THE INSPECTOR DETERMINE THE WELDER HAS DISCONTINUED PERFORMANCE OF THIS TASK, THE TASK SHALL BE RETURNED TO PERFORM UNTIL SUCH TIME AS THE INSPECTOR HAS RE-ESTABLISHED ADEQUATE ASSURANCE THE WELDER WILL PERFORM THE INSPECTION TASKS LISTED.

2 DOCUMENT - THE INSPECTOR SHALL PREPARE REPORTS INDICATING THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE REPORT NEED NOT PROVIDE DETAILED MEASUREMENTS FOR JOINT FIT-UPS, WPS SETTINGS, COMPLETED WELDS, OR OTHER INDIVIDUAL ITEMS LISTED IN THE TABLES. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR OR ELEVATION INSPECTED. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORILY REPAIRED SHALL BE NOTED IN THE INSPECTION.

3 WHEN WELDING OF DOUBLER PLATES, CONTINUITY PLATES OR STIFFENERS HAS BEEN PERFORMED IN THE K-AREA, VISUALLY INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3" OF THE WELD. THE VISUAL INSPECTION SHALL BE PERFORMED NO SOONER THAN 48 HOURS FOLLOWING COMPLETION OF THE WELDING.

VERIFICATION AND INSPECTION TASK	CONTINUOUS	PERIODIC	MATERIAL STD REFERENCE	IBC REFERENCE
<b>STRUCTURAL DECKING</b>				
<b>VERIFICATION AND INSPECTION TASK</b>				
<b>SOILS</b>				
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X		
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X		
3. PERFORM CLASSIFICATIONS AND TESTING OF COMPACTED FILL MATERIAL		X		
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X			
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X		

CONTINUOUS FOOTING SCHEDULE				
MARK	WIDTH	THICKNESS	REINFORCING	
CF2.0	2'-0"	1'-0"	(2) #5	WALL DOWELS
CF2.5	2'-6"	1'-0"	(3) #5	WALL DOWELS

CMU WALL REINFORCING SCHEDULE			
MARK	WALL THICKNESS	VERTICAL BAR SIZE AND SPACING	REMARKS
MW1	12"	#5 @ 48" OC	-
MW2	8"	#5 @ 32" OC	-

NOTES:

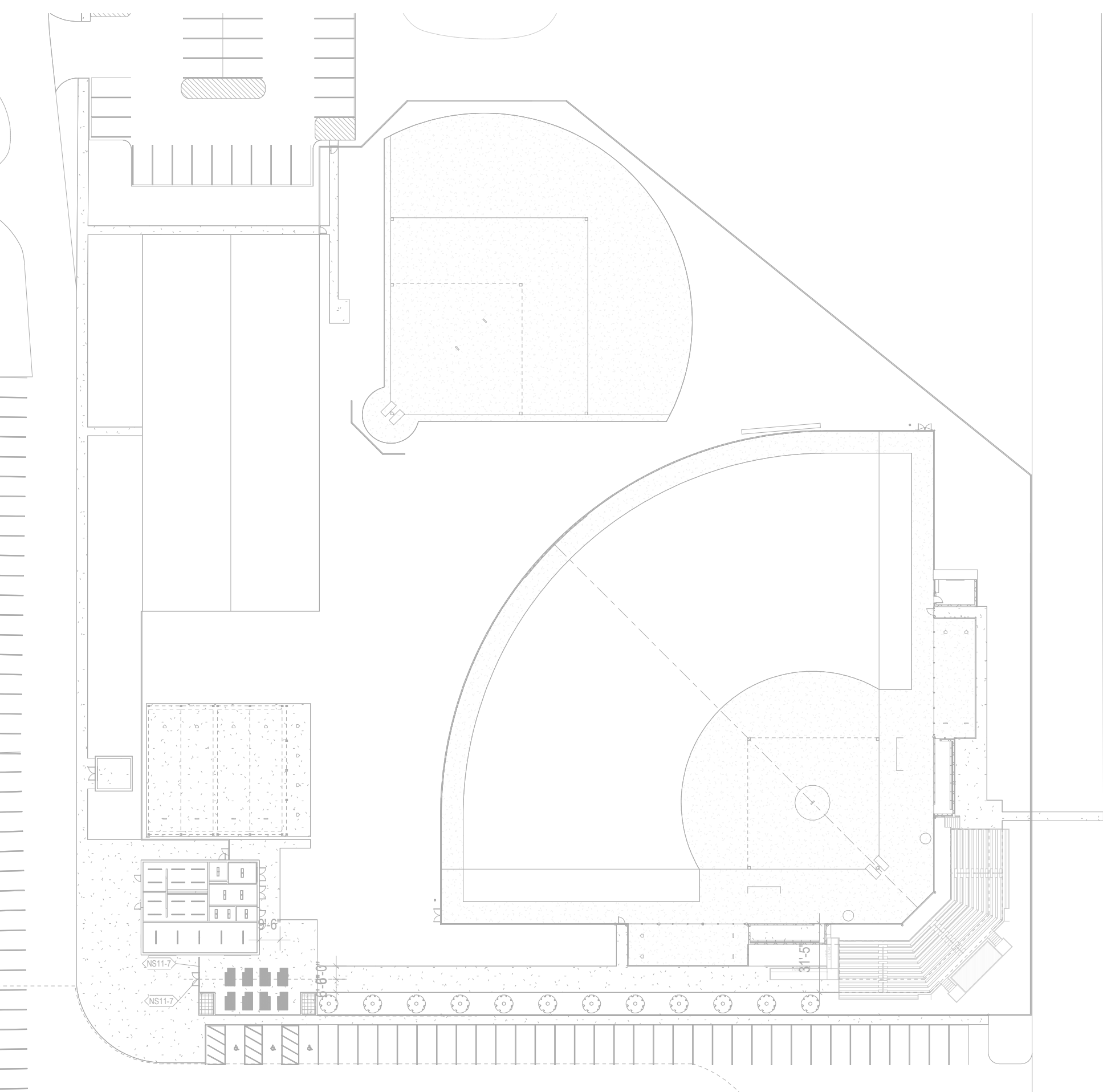
- TYP HORIZ REIN PER SPECIFICATIONS AND IS INTENDED TO BE A "DUROWALL - TRUSS TYPE" OR EQUIVALENT.
- "GROUT ALL CORES" INDICATES EVERY REINFORCED CORE AND UNREINFORCED CORE.
- REINFORCED CORES ARE ALWAYS GROUTED.
- SEE S-300 FOR TYP CMU DETAILING.

CMU REINFORCING BAR DEVELOPMENT LENGTH (L<sub>d</sub>) SCHEDULE

CMU THICKNESS	REINFORCING LOCATION	BAR SIZE	L <sub>d</sub>	REMARKS
8"	SINGLE LAYER, REINF CENTERED IN WALL	#3	12"	
		#4	18"	
		#5	28"	NOTE 5
12"	SINGLE LAYER, REINF CENTERED IN WALL	#4	13"	
		#5	20"	
		#6	38"	
		#7	52"	NOTE 5

NOTES:

- CONTRACTOR TO PROVIDE LAP SPICE LENGTHS TO MATCH L<sub>d</sub> VALUES PROVIDED IN SCHEDULE OR USE MECHANICAL SPLICES ADEQUATE FOR 125% OF SPECIFIED YIELD STRENGTH OF THE BAR.
- WHERE TWO DIFFERENT SIZES OF REINFORCING BARS ARE LAPPED, PROVIDE L<sub>d</sub> FOR SMALLER REINFORCING BAR.
- DOWEL EMBEDMENT INTO CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE CAST-IN-PLACE CONCRETE GENERAL NOTES.
- WHEN EPOXY-COATED REINFORCING BARS ARE USED, INCREASE TABULATED VALUES BY A FACTOR OF 1.5.
- MORTAR FINIS TO BE REMOVED.



1 OVERALL VIEW - FOR REFERENCE ONLY

1" = 50'-0"

STRUCTURAL SYMBOL LIST

GENERAL SYMBOLS:		
SYMBOL	DESCRIPTION	DETAIL REFERENCE
(+16'-3")	TOP OF STRUCTURAL FRAMING ABOVE ELEVATION (+9'-0")	N/A
(-2'-0")	TOP OF STRUCTURAL FOUNDATION BELOW ELEVATION (+0'-0")	N/A

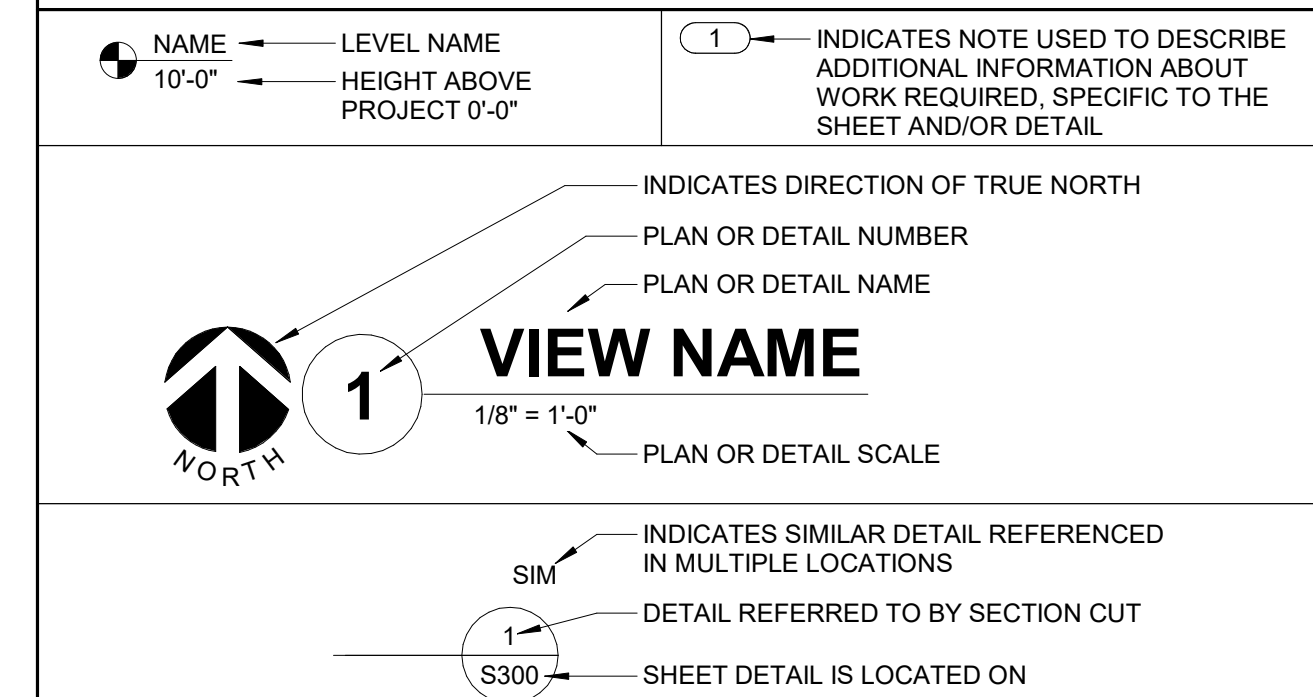
FOUNDATION SYMBOLS:

SYMBOL	DESCRIPTION	DETAIL REFERENCE
	SLAB DEPRESSION	
	STEP IN FOOTING	

STRUCTURAL ABBREVIATION KEY

ABBR:	DESCRIPTION:	ABBR:	DESCRIPTION:
#	NUMBER OR POUNDS	KSF	KIPS PER SQUARE FOOT
@	AT	KSI	KIPS PER SQUARE INCH
DEGREE	DEGREE	R	RADIUS
DIAMETER	DIAMETER	LBS	LENGTH
EXISTING	EXISTING	LL	LIVE LOAD
A.B.	ANCHOR BOLT	LLH	LONG LEG HORIZONTAL
ARCH	ARCHITECT - URE, -URAL	LLV	LONG LEG VERTICAL
B.O.	BOTTOM OF	LONG.	LONGITUDINAL
B.F.	BEAM FLANGE WIDTH	LSH	LONG SIDE HORIZONTAL
BM	BRACE FRAME	LSV	LONG SIDE VERTICAL
B.N.	BEAM	LT WT	LIGHTWEIGHT
BTWN	BETWEEN	MECH	MECHANICAL
BTWN	BETWEEN	MANUF	MANUFACTURER
C/SF	COLD FORM STEEL FRAMING	MINIMUM	MINIMUM
COS	CENTER OF GRAVITY OF THE TENDON	NIC	NOT IN CONTRACT
CJP	COMPLETE JOINT PENETRATION WELD	NTS	NOT TO SCALE
CLR	CLEAR	ON CENTER	ON CENTER
CL	CENTERLINE	OH	OPPOSITE HAND
CONC	CONCRETE MASONRY UNIT	OPNG	OPENING
COL	COLUMN	OSB	ORIENTED STRAND BOARD
CONC	CONCRETE	P.C.F.	POUNDS PER CUBIC FOOT
CONN	CONNECTION	P.H.	PARTIAL JOINT PENETRATION WELD
CONST	CONSTRUCTION	PJP	PARTIAL JOINT PENETRATION WELD
COORD	COORDINATION	PL	PLATE
DIA	DEAD LOAD	PLF	POUNDS PER LINEAR FOOT
DET	DETAIL	PSFS	POUNDS PER SQUARE FOOT
DWL	DRAWING	PSI	POUNDS PER SQUARE INCH
DOWEL	DOWEL	PT	POST-TENSION, -ED, -ING
EACH	EACH FACE	R	RADIUS
EFF	EFFECTIVE	REINF	REINFORCING, -MENT, -ED
EL	ELEVATION	REQD	REQUIRED
ELEC	ELECTRICAL	RTU	ROOF TOP UNIT
EMBED	EMBEDMENT	SC	SLIP CRITICAL
E.N.	EDGE NAILING	SCHED	SCHEDULE
EQ	EDGE OF DECK	S.F.R.S.	SEISMIC FORCE-RESISTING SYSTEM
EQ	EDGE OF SLAB	SIM	SIMILAR
EQ	EQUAL	SNOW	SNOW LOAD
EQU	EQUIPMENT	S.M.S.	SHEET METAL SCREW
EXP	EXPANSION	SP	SPACE(S)
EXT	EXTERIOR	SPECS	SPECIFICATION(S)
F.N.	FIELD NAILING	SQ	SQUARE </td
FTG	FOOT	STIFF	STIFFENER
GA	GAGE OR GAUGE	STL	STEEL
GALV	GALVANIZED	SYM	SYMMETRICAL
HORIZ	HORIZONTAL	T&B	TOP AND BOTTOM
HSA	HEADED STUD ANCHOR	T.O.	TOP OF
HSS	HIGH STRENGTH BOLT	FOUNDATION	PRE-TENSIONED BOLT
JT	JOINT	TEMP	TEMPERATURE
K	KILOFOOT (1,000 POUNDS)	THK	BEAM FLANGE THICKNESS
		TRANS	TRANSVERSE
		TYP	TYPICAL
		UN	UNLESS OTHERWISE NOTED
		VERT	VERTICAL
		VIF	VERIFY IN FIELD
		W	WITH
		WP	WORK POINT
		WT	WEIGHT
		WWR	WELDED WIRE REINFORCING

VIEW KEY



LINE TYPE KEY:

- NEW WORK (DARK SOLID LINE/LINE WEIGHT WILL VARY)
- NEW WORK BELOW OR BEYOND VIEW (DARK DASH LINE)
- EXISTING TO BE REMOVED (DARK DASH LINE)
- EXISTING WORK TO REMAIN (HALFTONED SOLID LINE/LINE WEIGHT WILL VARY)
- NON STRUCTURAL (HALFTONED LIGHT SOLID LINE)
-



1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

A

B

C

D

E

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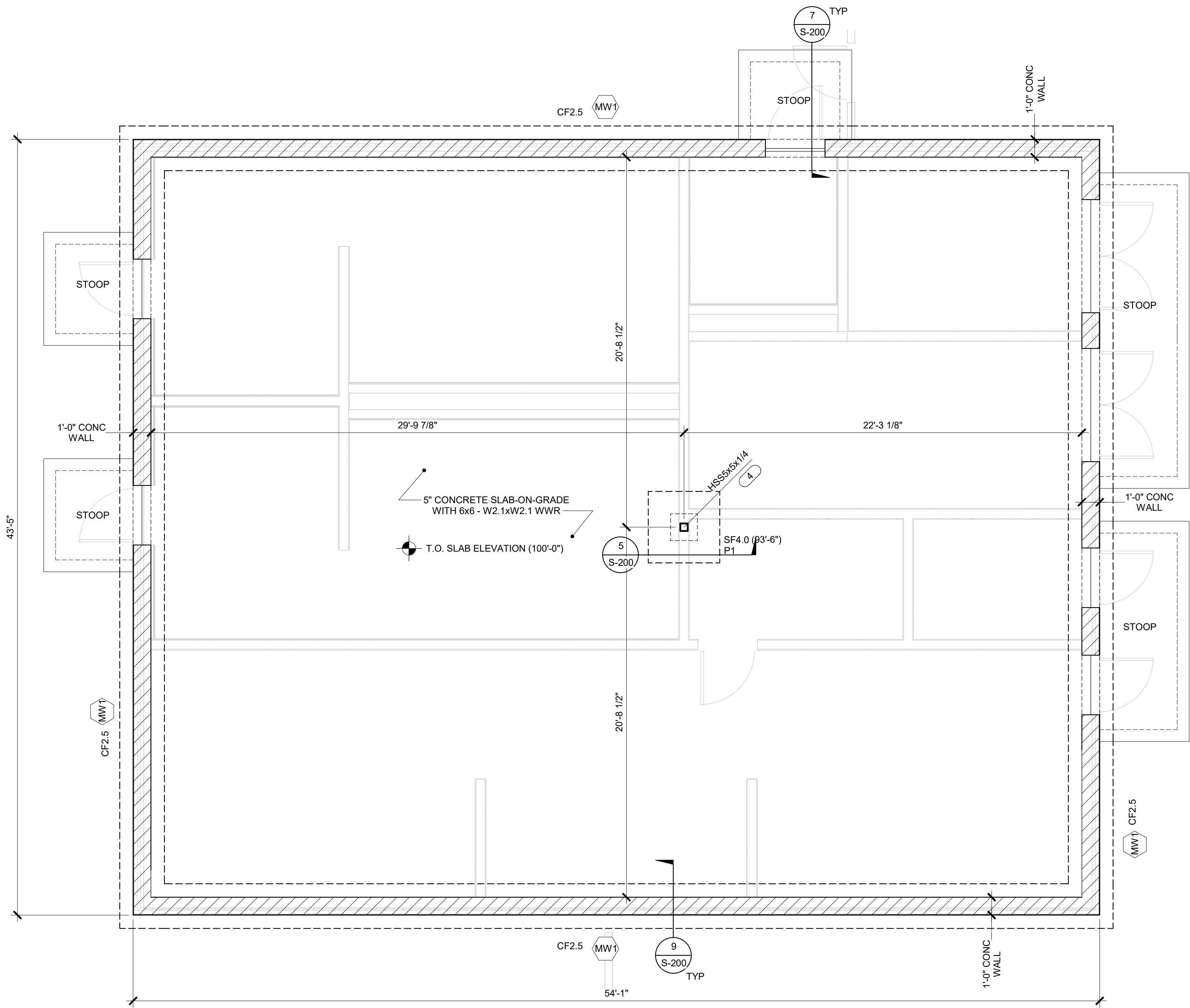
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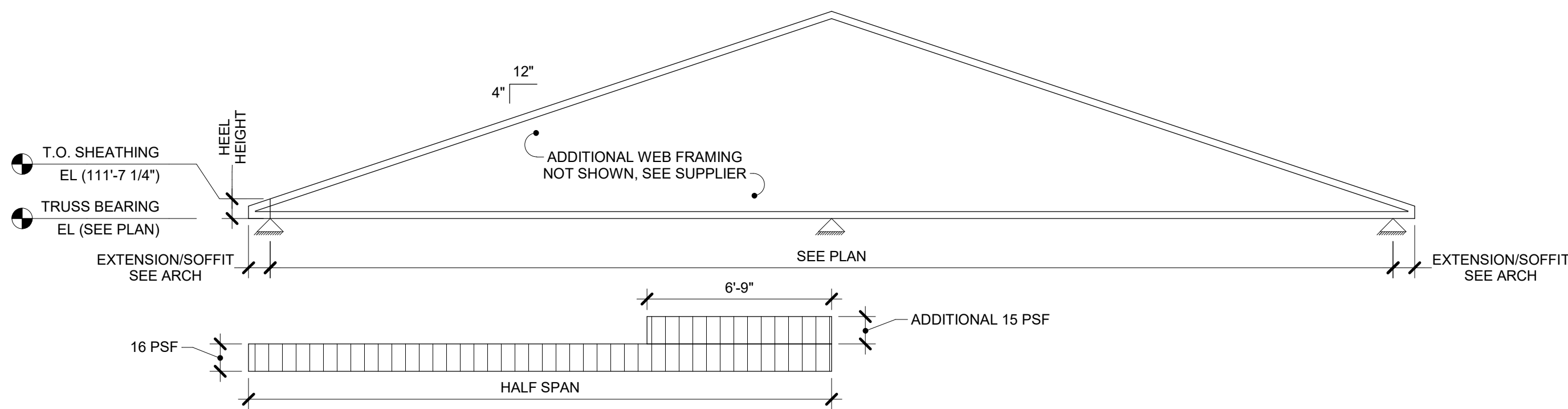
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1 FOUNDATION PLAN - CONCESSIONS

1/4" = 1'-0"



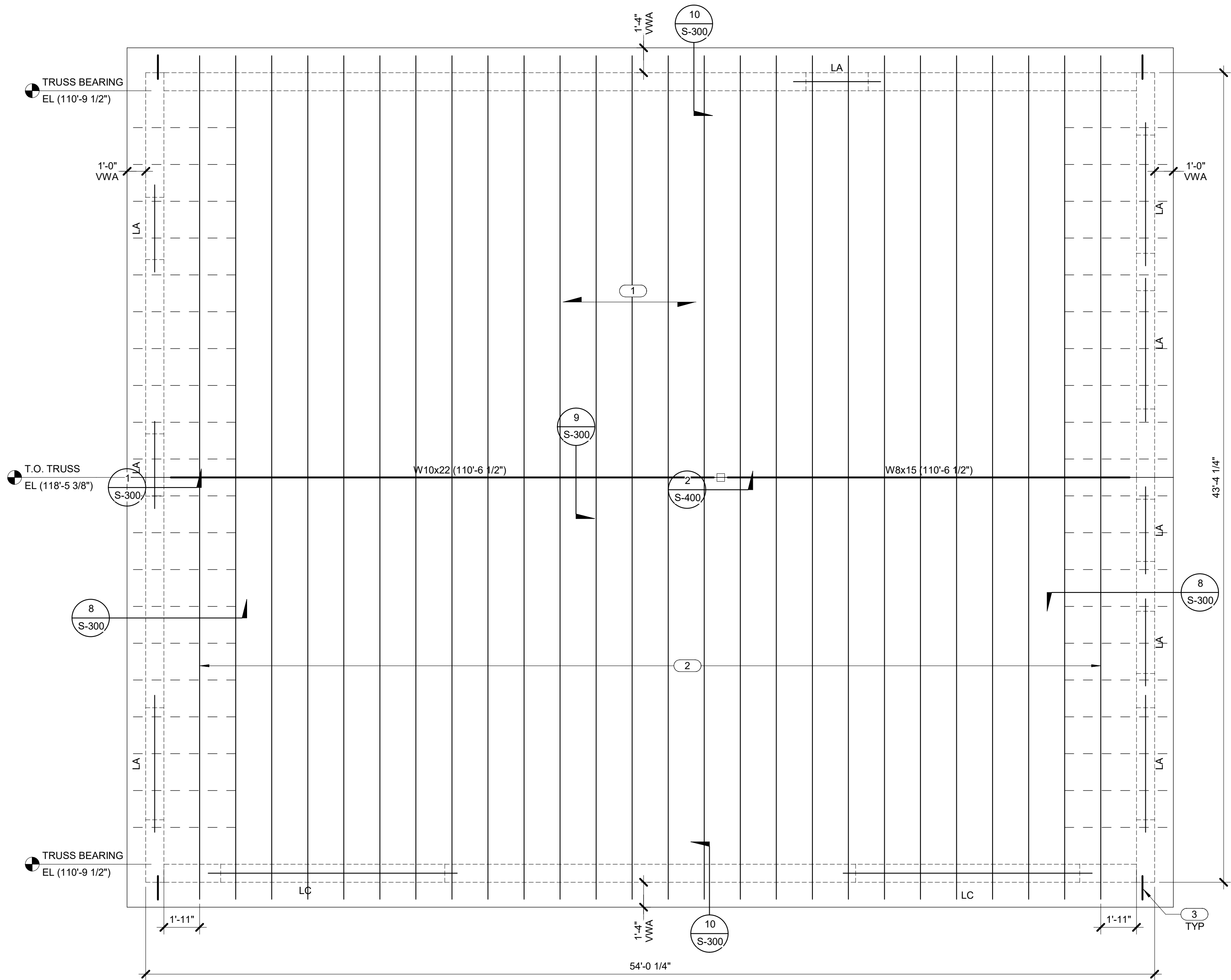
NOTE:

1. TRUSS SUPPLIER TO DESIGN FOR THE FOLLOWING LOADS:  
TOP CHORD DL = 10 PSF  
BOTTOM CHORD DL = 5 PSF  
TRUSS SELF-WEIGHT  
BALANCED SL PER S-100  
UNBALANCED SNOW LOAD PER GRAPH SHOWN ABOVE. LOADS INDICATED OVER HALF SPAN CAN TAKE PLATE ON EITHER SIDE.

3

ROOF TRUSS DIAGRAM

1/4" = 1'-0"



2 ROOF FRAMING PLAN - CONCESSIONS

1/4" = 1'-0"

#### NOTES:

1. SEE S-200 FOR TYPICAL SLAB ON GRADE CONSTRUCTION DETAILS.
2. TOP OF EXTERIOR FOOTING EL (93'-6"). SEE SCHEDULE ON S-001.
3. FOOTINGS TO BEAR ON SUITABLE SOILS PER GEOTECHNICAL REPORT. REFER TO GEOTECH REPORT AND 10/S-200 FOR MORE INFORMATION ON OVER-EXCAVATION.
4. TOP OF FOUNDATION WALL EL (100'-0"). UON.
5. TOP OF PIER EL (99'-4"). SEE 8/S-200 FOR PIER INFORMATION.
6. PROVIDE 2'-6" x 2'-6" CORNER BARS FOR FOOTING AND WALL INTERSECTIONS. BAR SIZE AND QUANTITY TO MATCH LONGITUDINAL AND HORIZONTAL BARS.
7. FOR PIPING AND CONDUIT THROUGH FOUNDATIONS. SEE 12/S-200.
8. SEE S-001 FOR CMU WALL SCHEDULE.
9. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.
10. SEE PLAN FOR DECK BEARING ELEVATIONS.
11. SEE S-001 FOR LINTELS IN STRUCTURAL CMU WALLS AND S-000 FOR NON-STRUCTURAL WALLS.

#### KEYNOTES: #

1. ROOF SHEATHING = 5/8" OSB SHEATHING - REFER TO GENERAL NOTES FOR FASTENING AND STRENGTH REQUIREMENTS. REFER TO 3/S-103 FOR TYPICAL DETAIL.
2. WOOD TRUSSES @ 2'-0" OC MAX. TRUSS LAYOUT ON PLAN IS SCHEMATIC AND REPRESENTATIVE. QUANTITIES MAY NOT BE ACCURATELY SHOWN FOR OUTLINE TRUSS SPACING. SUPPLIER RESPONSIBLE FOR TEMPORARY AND PERMANENT BRACING. REFER TO 3/S-100 FOR ROOF TRUSS DIAGRAM.
3. 2x6 OUTRIGGERS @ 2'-0" OC.
4. SEE 1/S-400 FOR BASE PLATE INFORMATION.

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## NORTH SCOTT COMMUNITY SCHOOL DISTRICT NEW SOFTBALL COMPLEX

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DATE OF ISSUE 12.20.2022  
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FOUNDATION AND  
FRAMING -  
CONCESSIONS

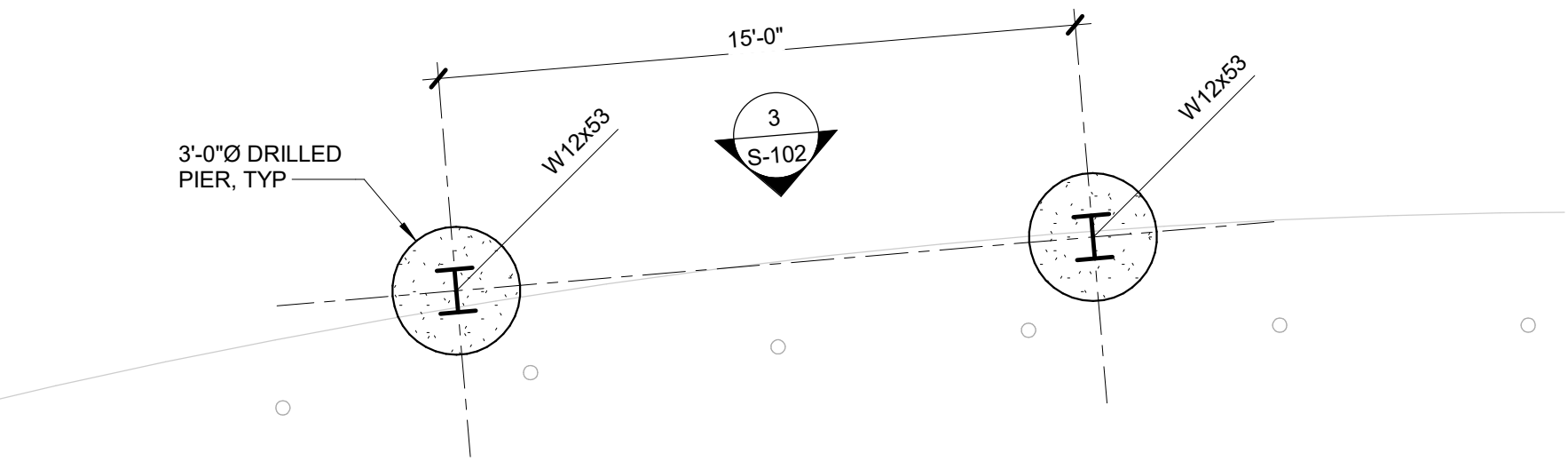
S-100  
CONSTRUCTION



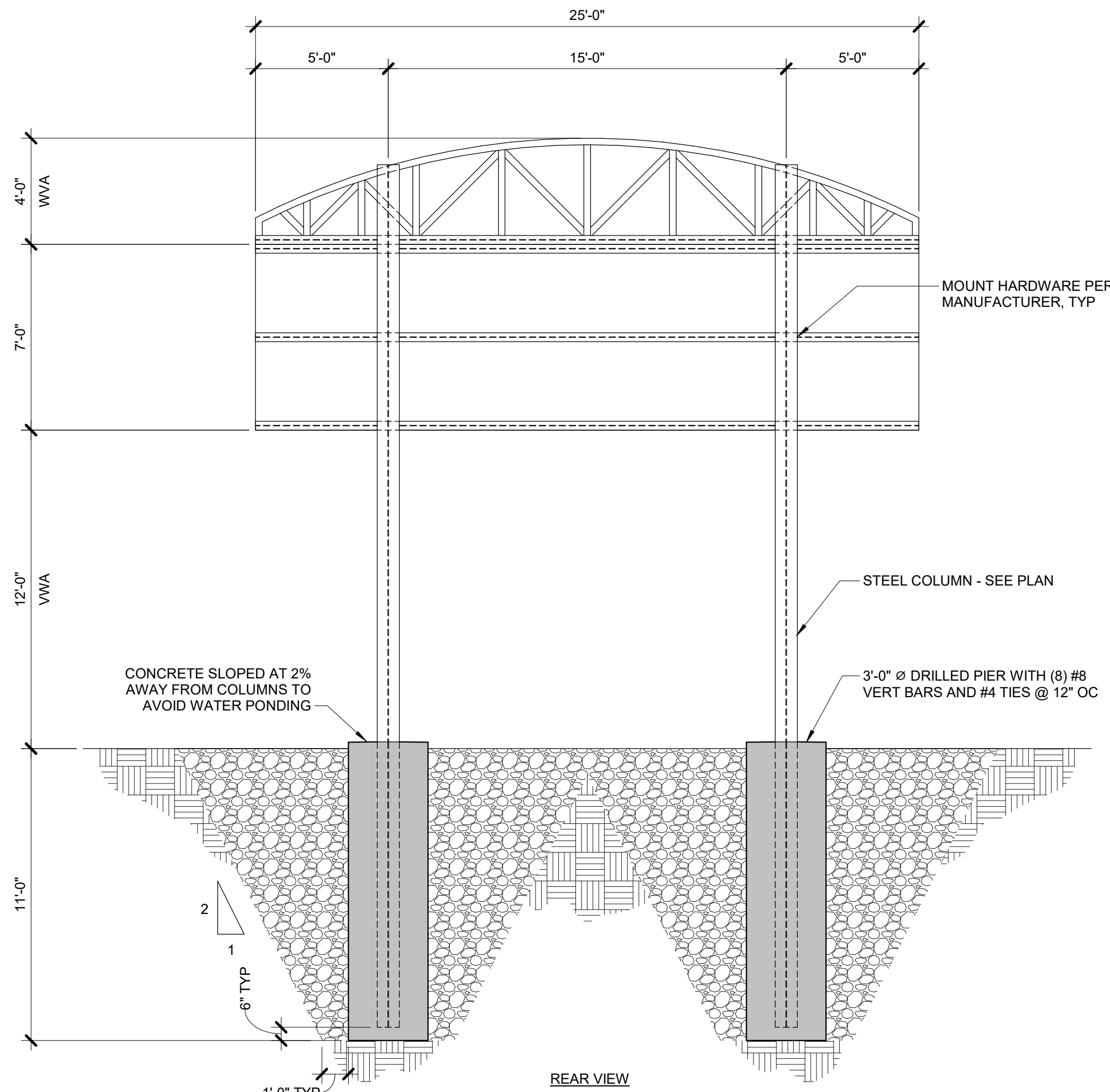
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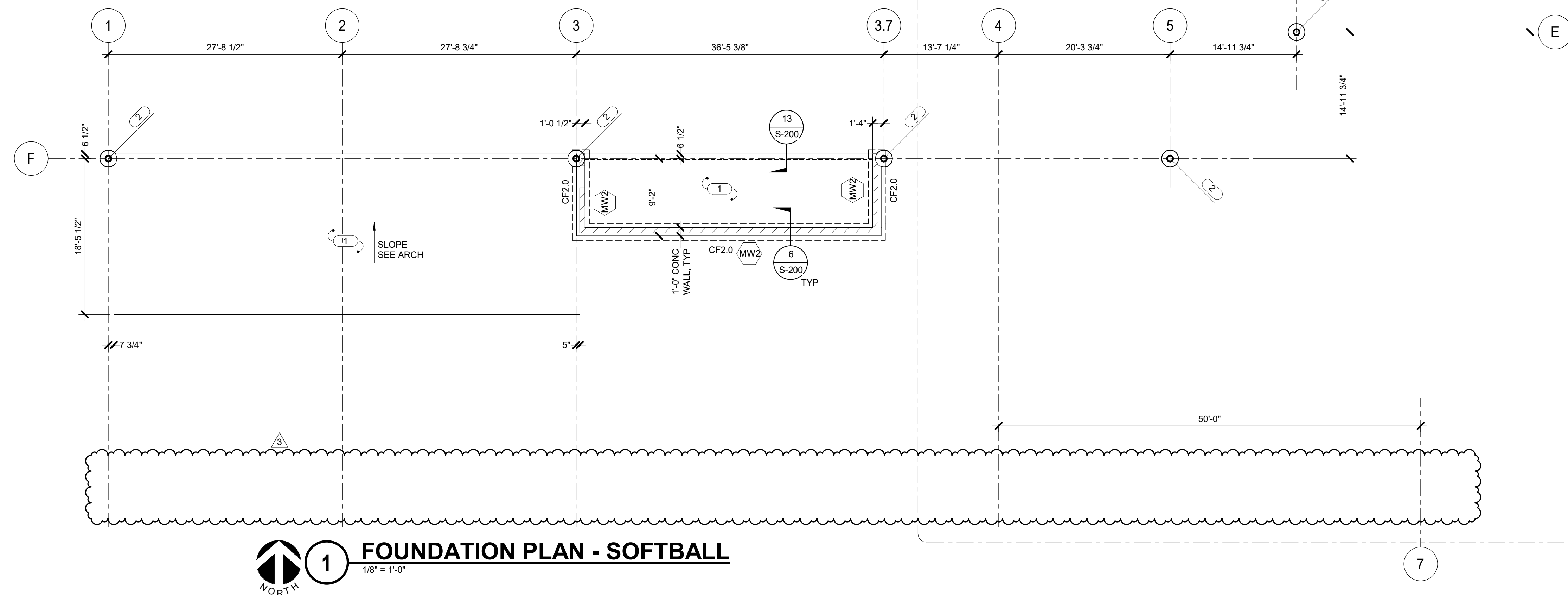


**2 FOUNDATION PLAN - SCOREBOARD**  
1/4" = 1'-0"



- NOTES:
1. WIND LOAD PER GENERAL NOTES.
  2. COORDINATE HEIGHT OF COLUMNS WITH SCOREBOARD SUPPLIER.
  3. INFILL WITH COMPACTED GRANULAR FILL AROUND DRILLED PIER.

**3 ELEVATION - SCOREBOARD**  
NO SCALE



**1 FOUNDATION PLAN - SOFTBALL**  
1/8" = 1'-0"

- NOTES:
1. SEE S-200 FOR TYPICAL SLAB ON GRADE CONSTRUCTION DETAILS.
  2. TOP OF EXTERIOR FOOTING EL (96'-6"), UON. BEARING ELEVATIONS HAVE BEEN PROVIDED PER RECOMMENDATIONS WITHIN GEOTECHNICAL REPORT. SEE 10/S-200 FOR MORE INFORMATION ON OVER-EXCAVATION.
  3. SEE S-001 FOR SCHEDULES.
  4. TOP OF FOUNDATION WALL EL (100'-3"), UON.
  5. TOP OF PIER EL (99'-4"), UON.
  6. SEE S-200 FOR DETAILS.
  7. SEE S-400 FOR BASE PLATE DETAILS.
  8. PROVIDE 2'-6" x 2'-6" CORNER BARS FOR FOOTING AND WALL INTERSECTIONS. BAR SIZE AND QUANTITY TO MATCH LONGITUDINAL AND HORIZONTAL BARS.
  9. FOR PIPING AND CONDUIT THROUGH FOUNDATIONS, SEE 12/S-200.
  10. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.

- KEYNOTES: **E**
1. 4" CONCRETE SLAB ON GRADE WITH 6x6 - W2.1xW2.1 WWR. TOP OF SLAB EL (100'-0"), UON.
  2. HSS8.625x0.250 FOR NETTING SYSTEM SUPPORT. PART NO. TNPBUC WAS CONSIDERED AS BASIS OF DESIGN. IF FINAL MODEL VARIES, CONTACT EOR. SEE 11/S-200 FOR FOUNDATION INFORMATION. GENERAL CONTRACTOR TO COORDINATE WITH MANUFACTURER IF STEEL COLUMN WILL BE PROVIDED.
  3. GRANDSTAND/PRESSBOX FRAMING AND FOUNDATION STRUCTURAL DESIGN PER MANUFACTURER.
  4. 5" CONCRETE SLAB ON GRADE WITH 6x6 - W2.1xW2.1 WWR. TOP OF SLAB EL (100'-0").

**LEGAT** ARCHITECTS  
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Moline, IL 61265  
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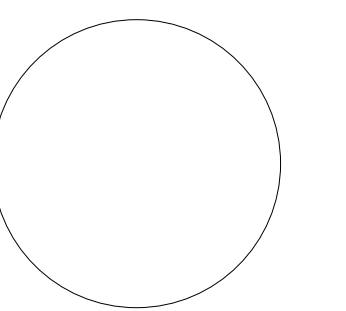
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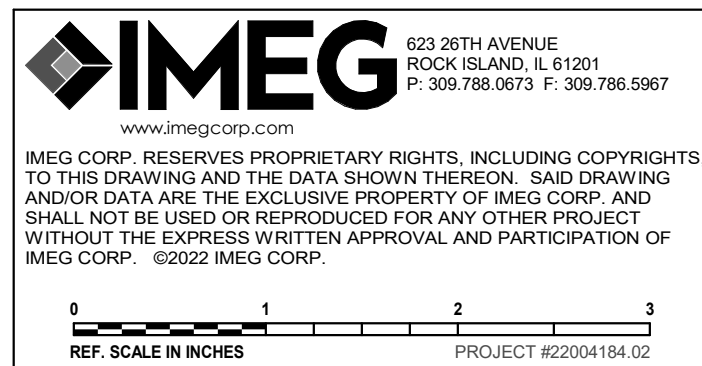
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NO.	DESCRIPTION	DATE
3	ADDENDUM 3	12/07/22

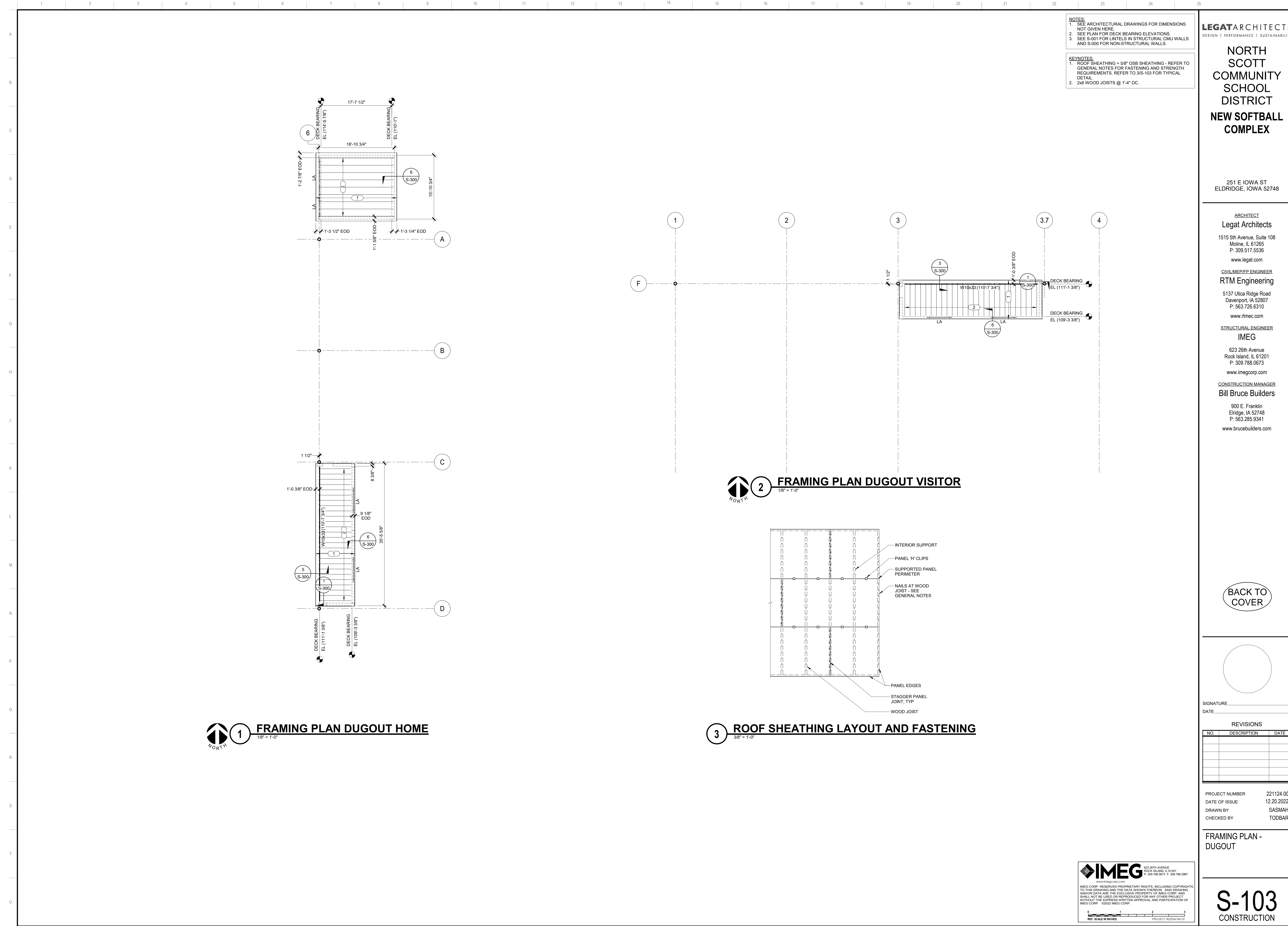
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FOUNDATION -  
SOFTBALL



**S-102**  
CONSTRUCTION





**NOTES:**  
1. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT GIVEN HERE.  
2. SEE PLAN FOR DECK BEARING ELEVATIONS.  
3. SEE S-001 FOR LINTELS IN STRUCTURAL CMU WALLS AND S-000 FOR NON-STRUCTURAL WALLS.

**KEYNOTES:**  
1. ROOF SHEATHING = 5/8" OSB SHEATHING - REFER TO GENERAL NOTES FOR FASTENING AND STRENGTH REQUIREMENTS. REFER TO 3/5-103 FOR TYPICAL DETAIL.  
2. 2x6 WOOD JOISTS @ 1'-4" OC.

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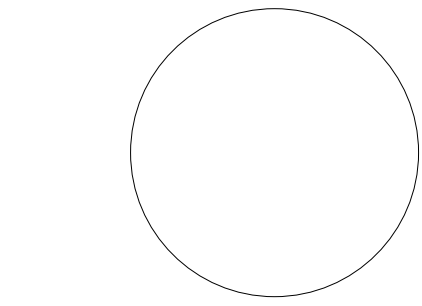
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FRAMING PLAN -  
DUGOUT

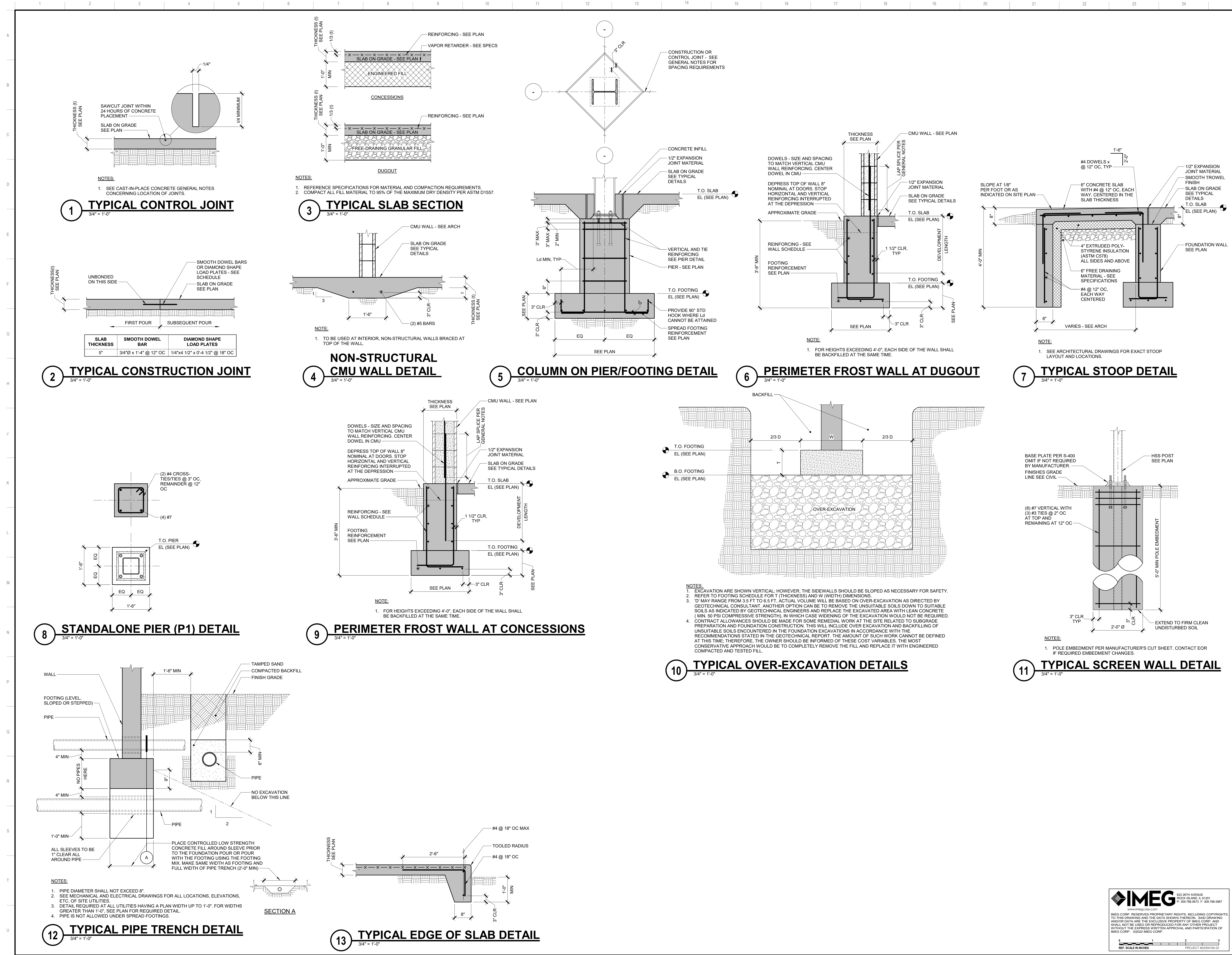
**S-103**  
CONSTRUCTION

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FOUNDATION DETAILS

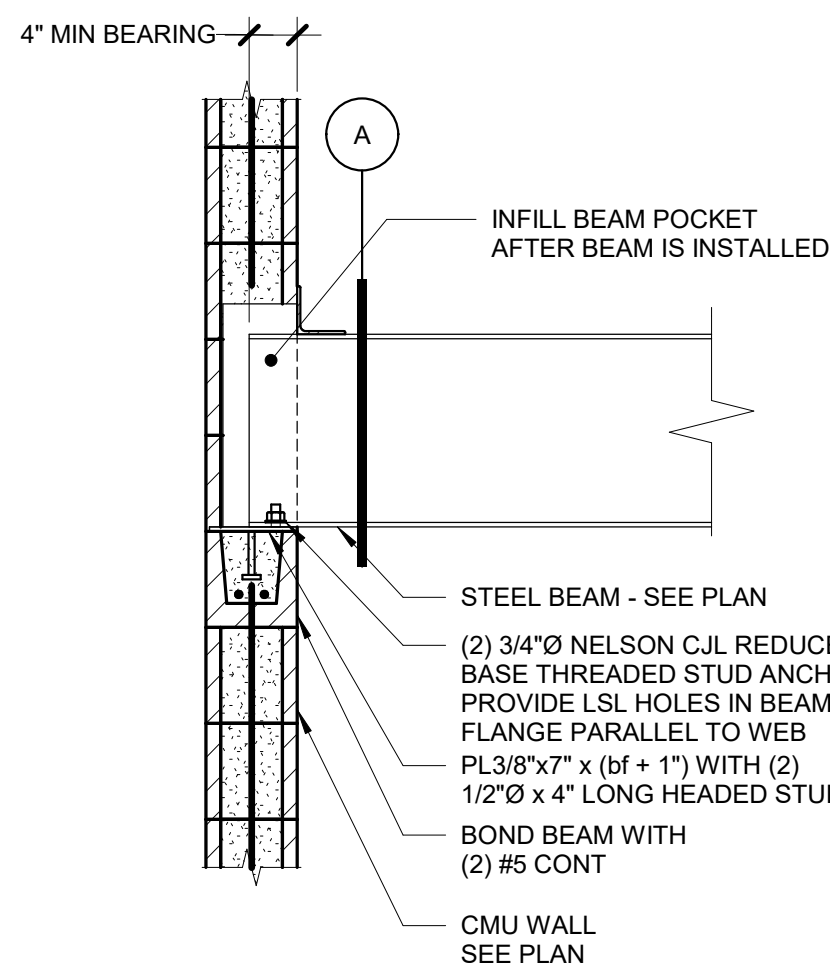
**S-200**  
CONSTRUCTION

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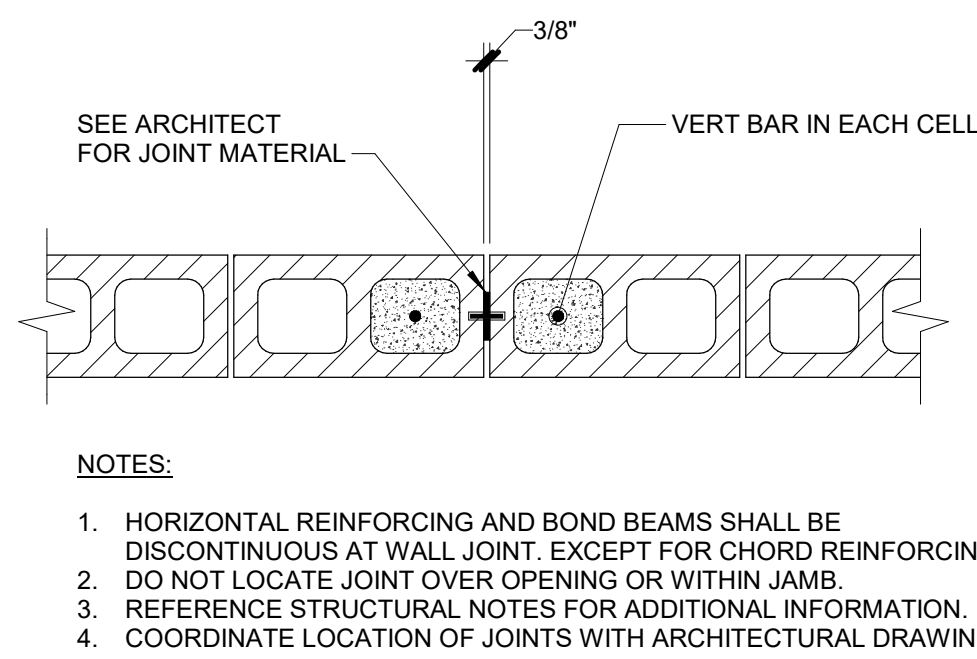
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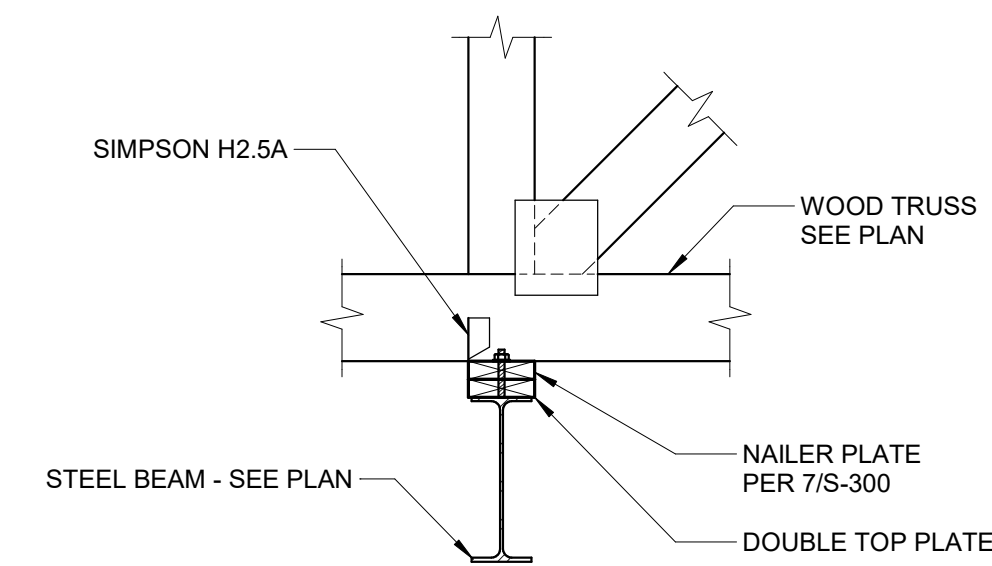




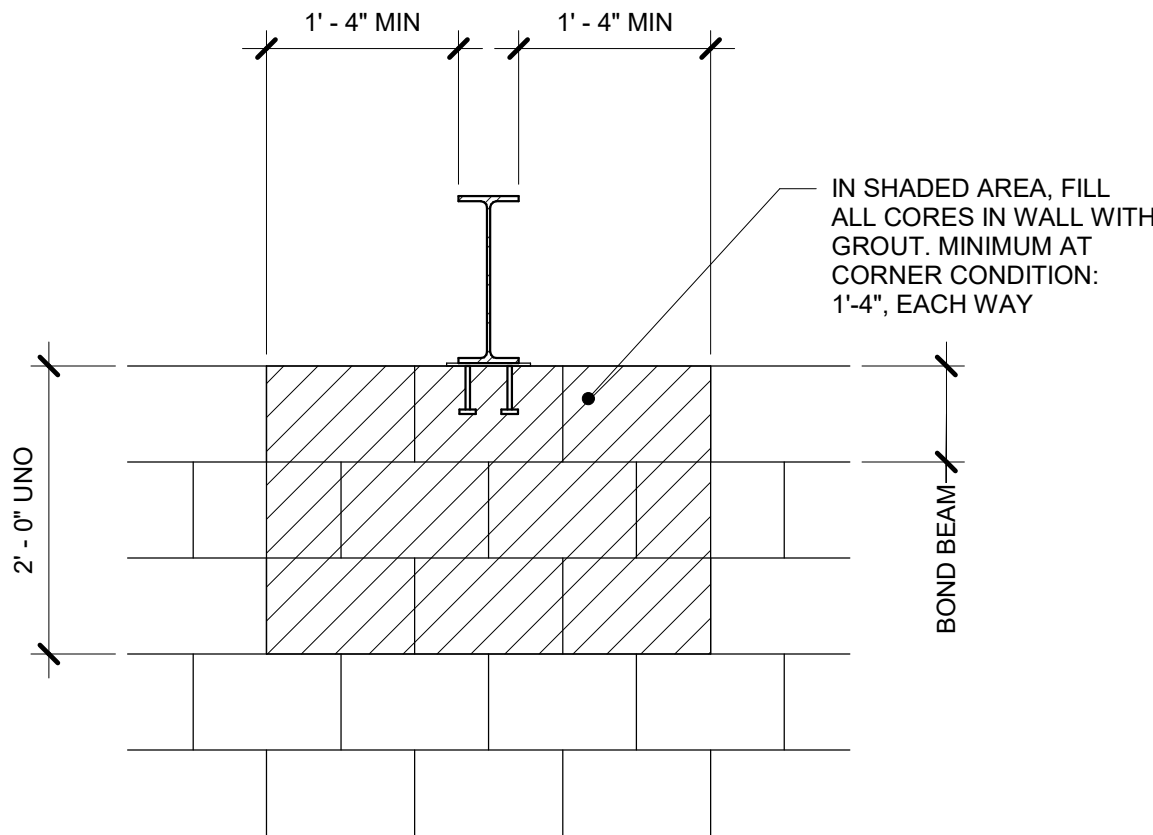
**1 TYPICAL BEAM BEARING ON CMU**  
3/4" = 1'-0"



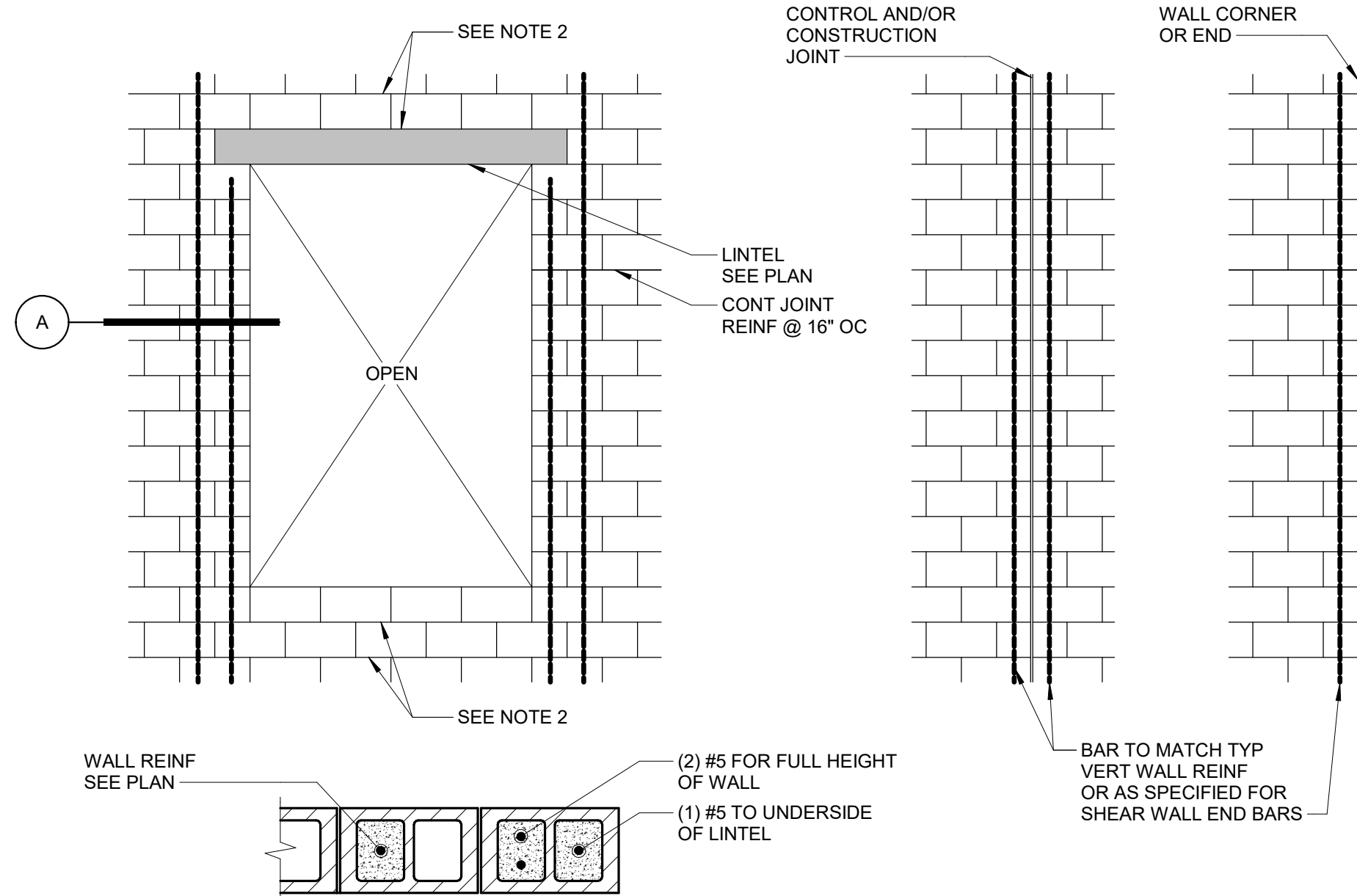
**4 WALL CONSTRUCTION JOINT**  
1" = 1'-0"



**9 TRUSS BEARING AT INTERIOR WALL DETAIL**  
3/4" = 1'-0"

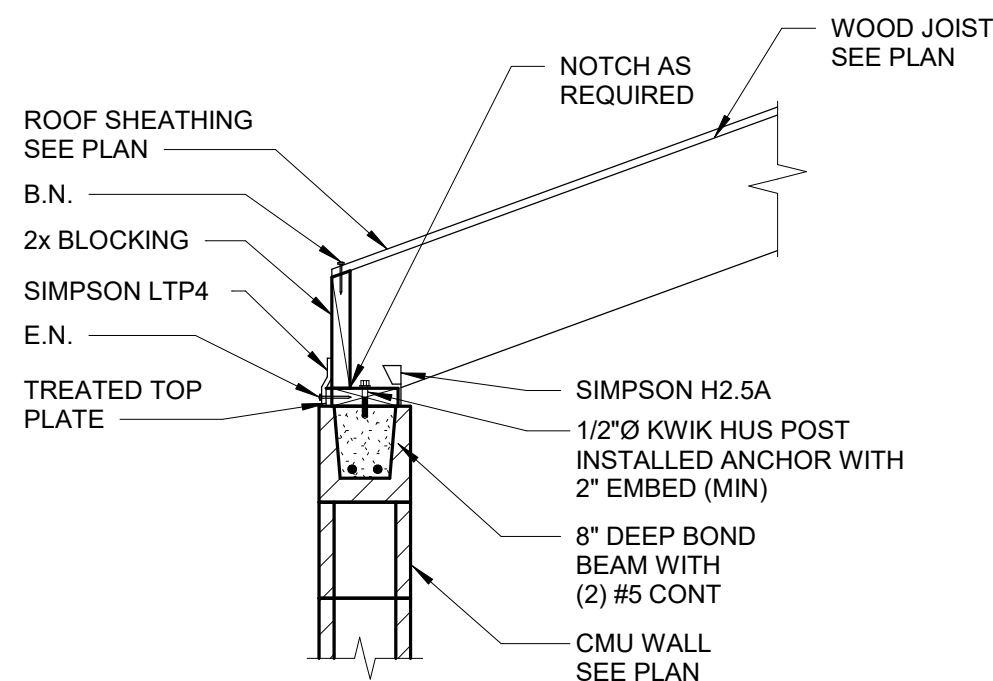


SECTION A

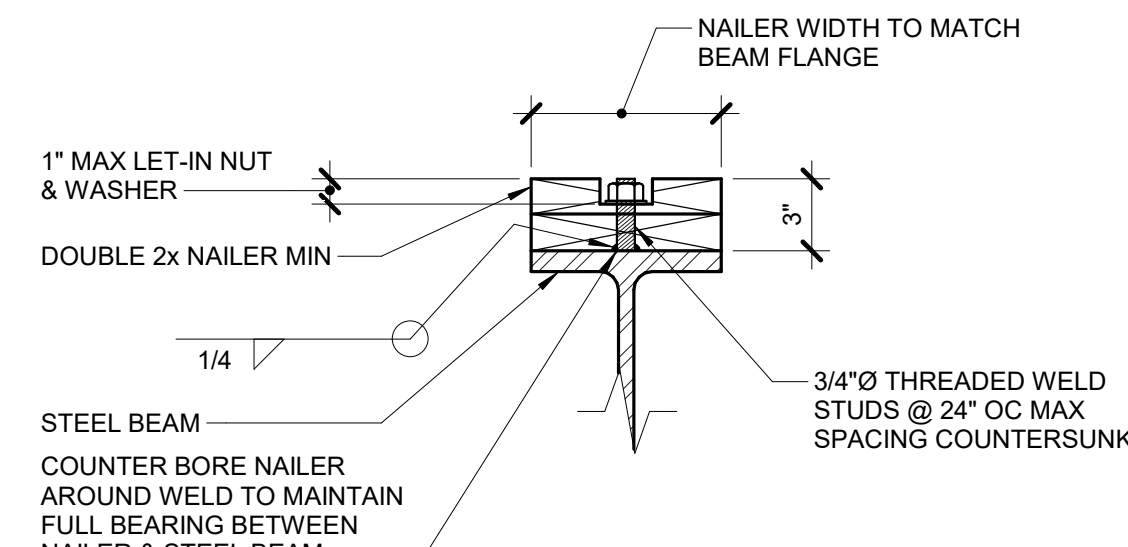


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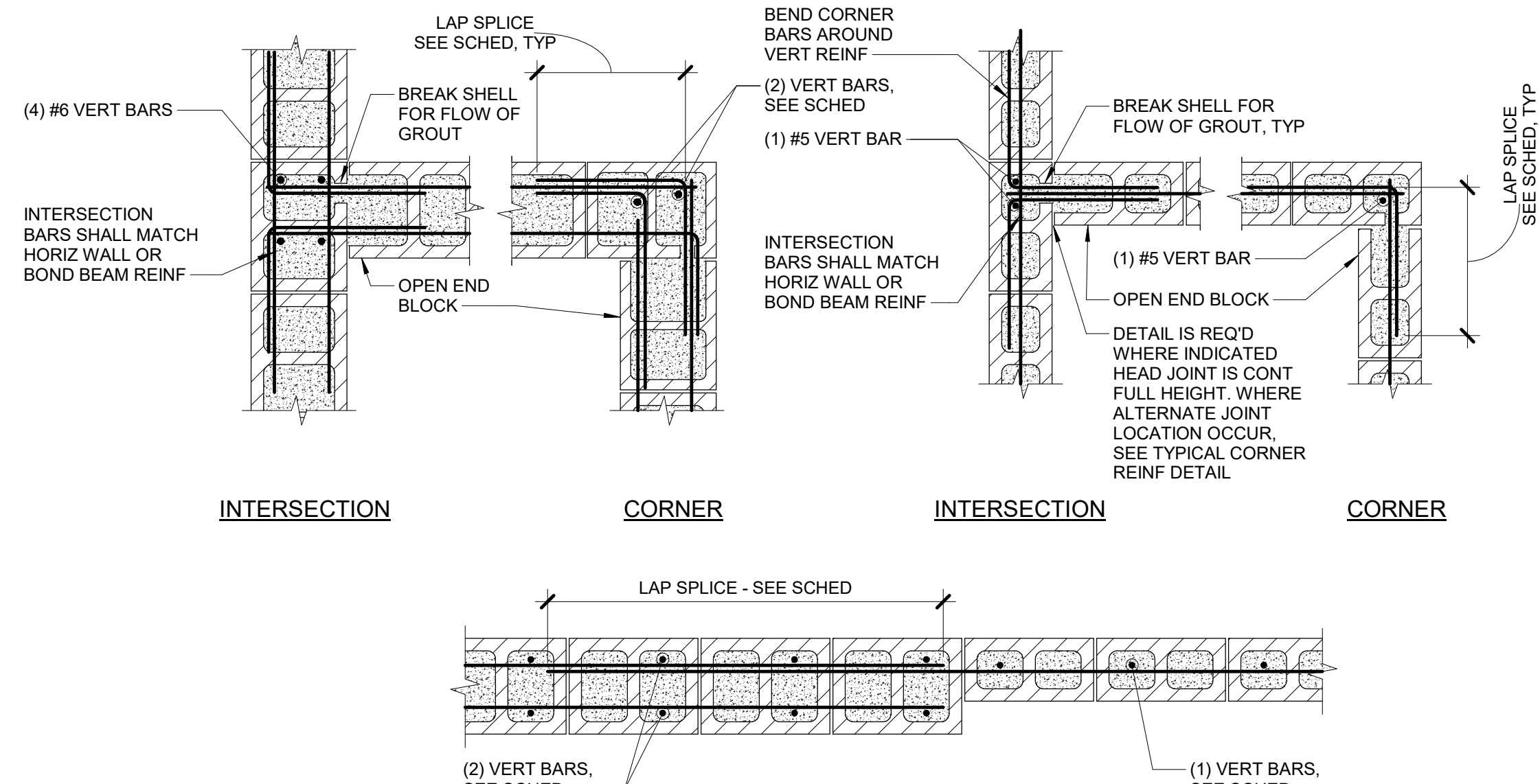
**2 TYPICAL CMU WALL OPENING DETAIL**  
3/4" = 1'-0"



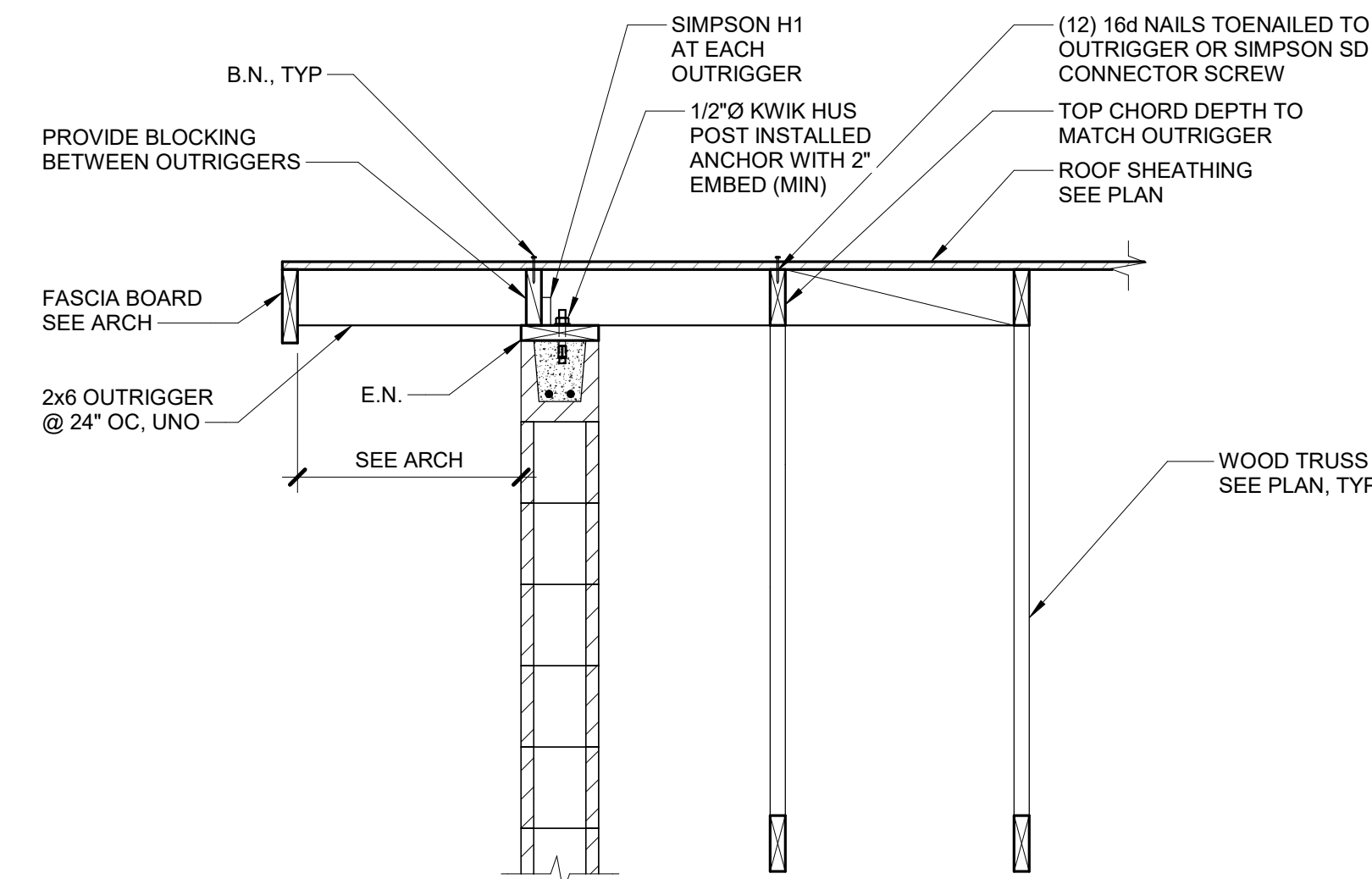
**6 JOISTS BEARING DETAIL**  
3/4" = 1'-0"



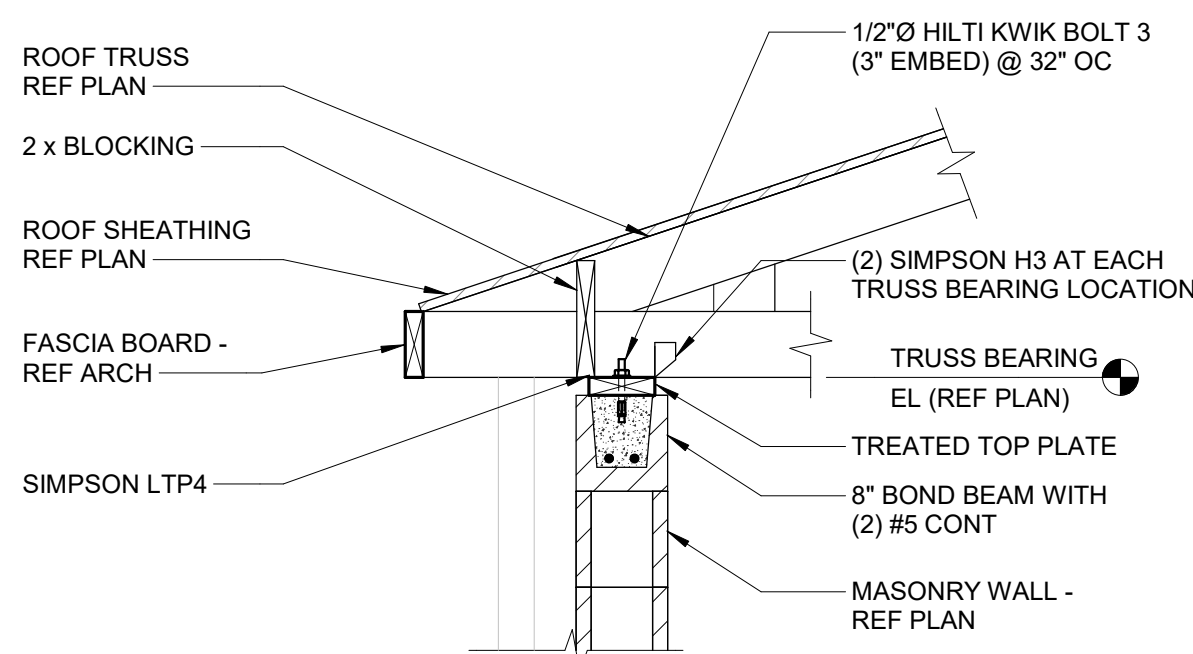
**7 NAILER DETAILS**  
1 1/2" = 1'-0"



**3 CMU WALL INTERSECTION DETAILS**  
3/4" = 1'-0"



**8 TRUSS PARALLEL TO WALL DETAIL**  
3/4" = 1'-0"



**10 TRUSS BEARING AT EXTERIOR WALL DETAIL**  
3/4" = 1'-0"

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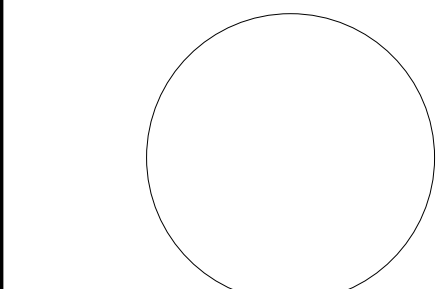
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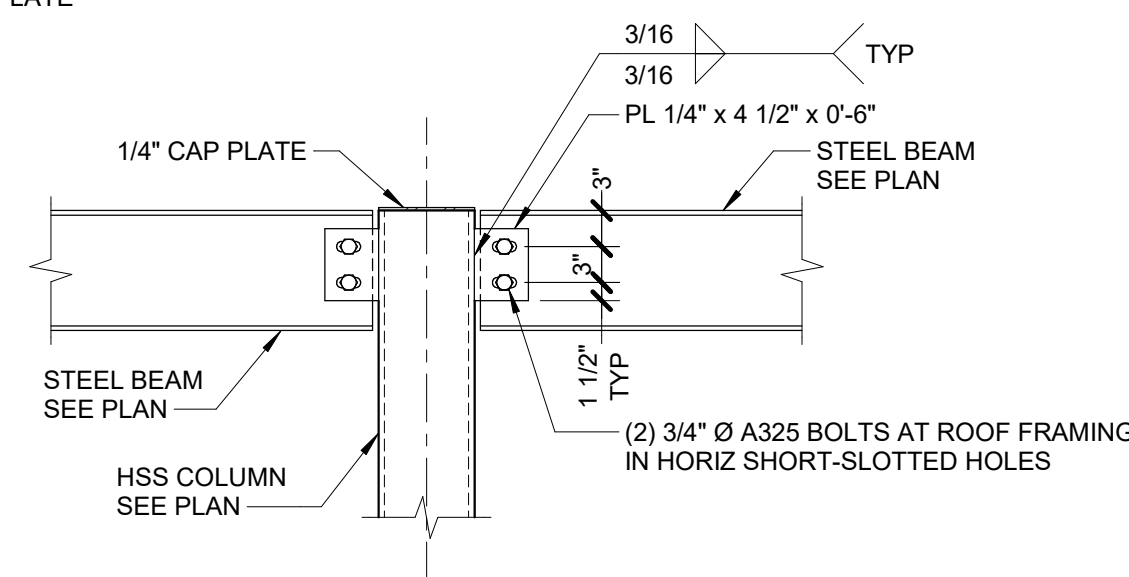
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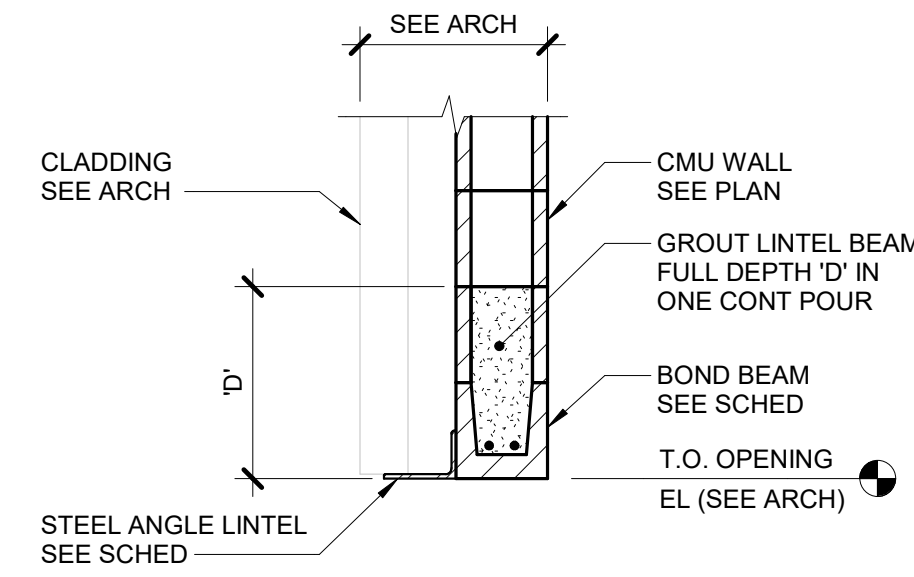
MASONRY DETAILS

**S-300**  
CONSTRUCTION

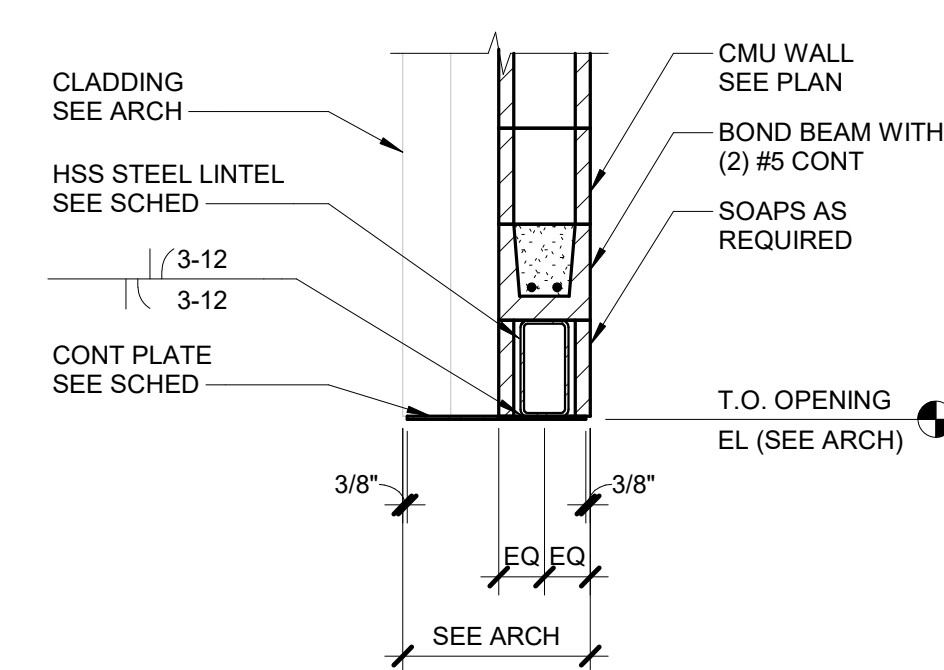




## 2 WIDE FLANGE BEAM CONNECTION TO HSS



### 3 BOND BEAM LINTEL DETAIL

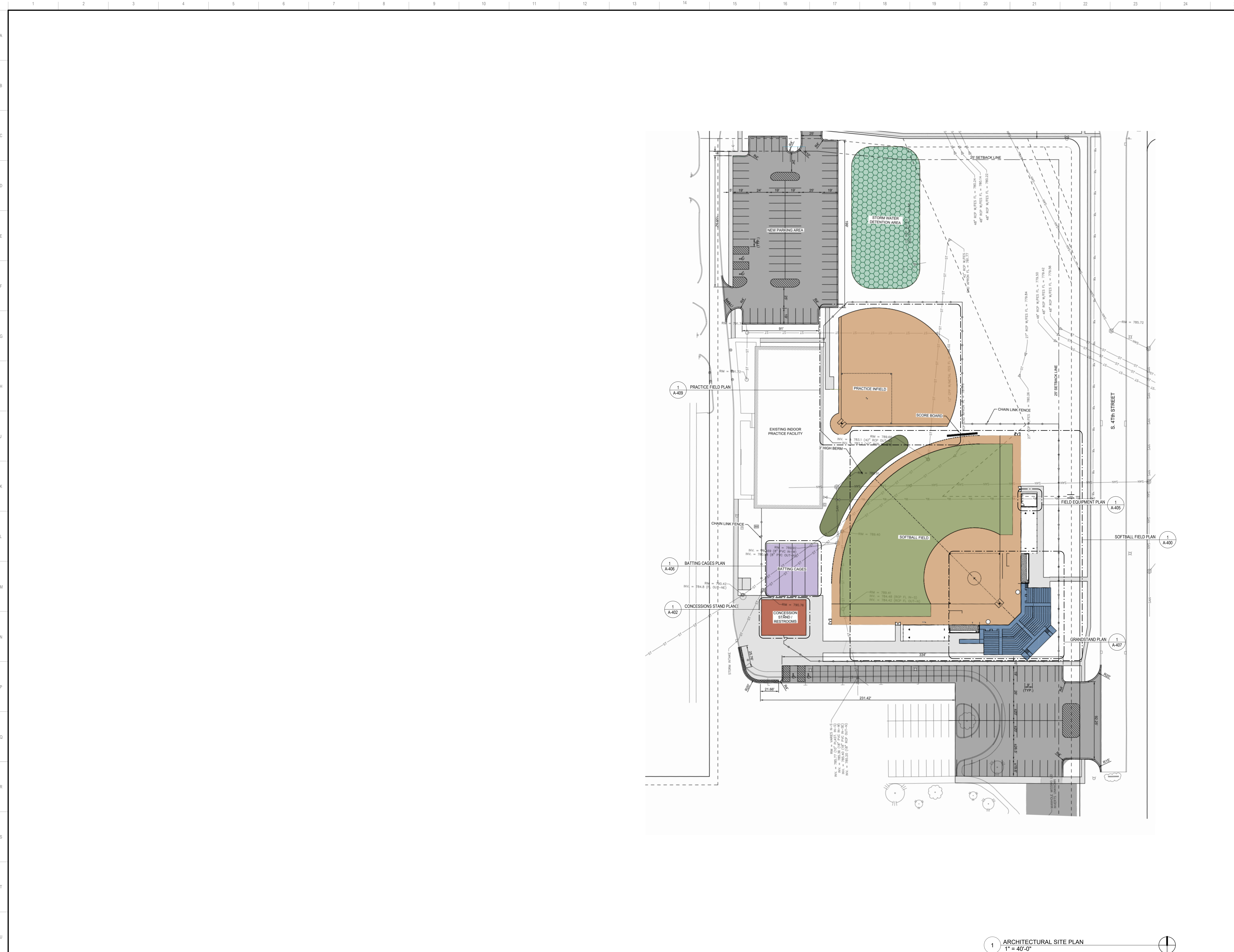


## 4 HSS LINTEL DETAIL

# S-400

## CONSTRUCTION





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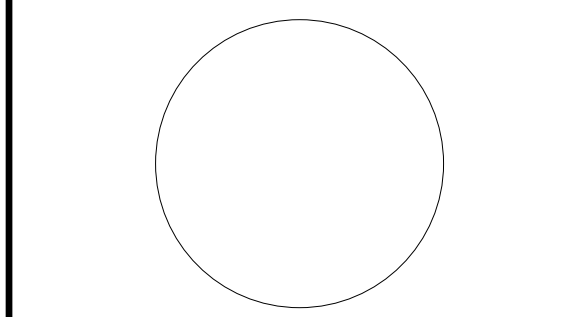
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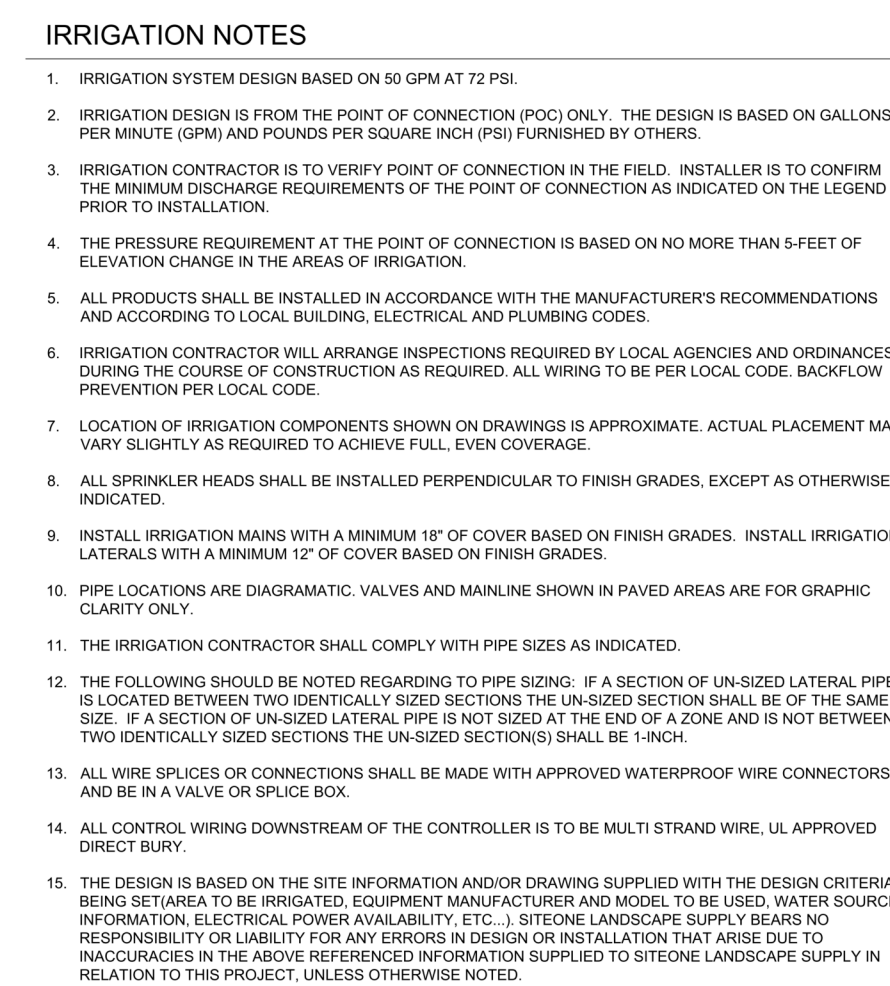
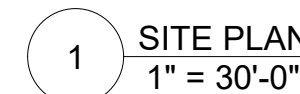
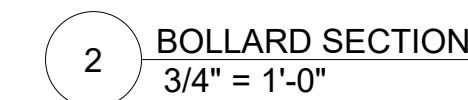
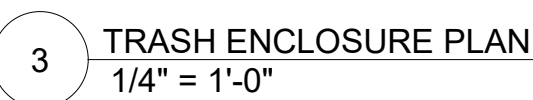
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



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ARCHITECTURAL SITE  
PLAN

AS001  
CONSTRUCTION



Sheet Number:

LANDSCAPING LEGEND			
SYM	COMMON NAME	QTY	SIZE
	OAK	6	2" CAL.
	CONCOLOR FIR	15	6' TALL
	CRIMSON MAPLES	3	2" CAL.
	EASTERN REDBUD	3	1" CAL.

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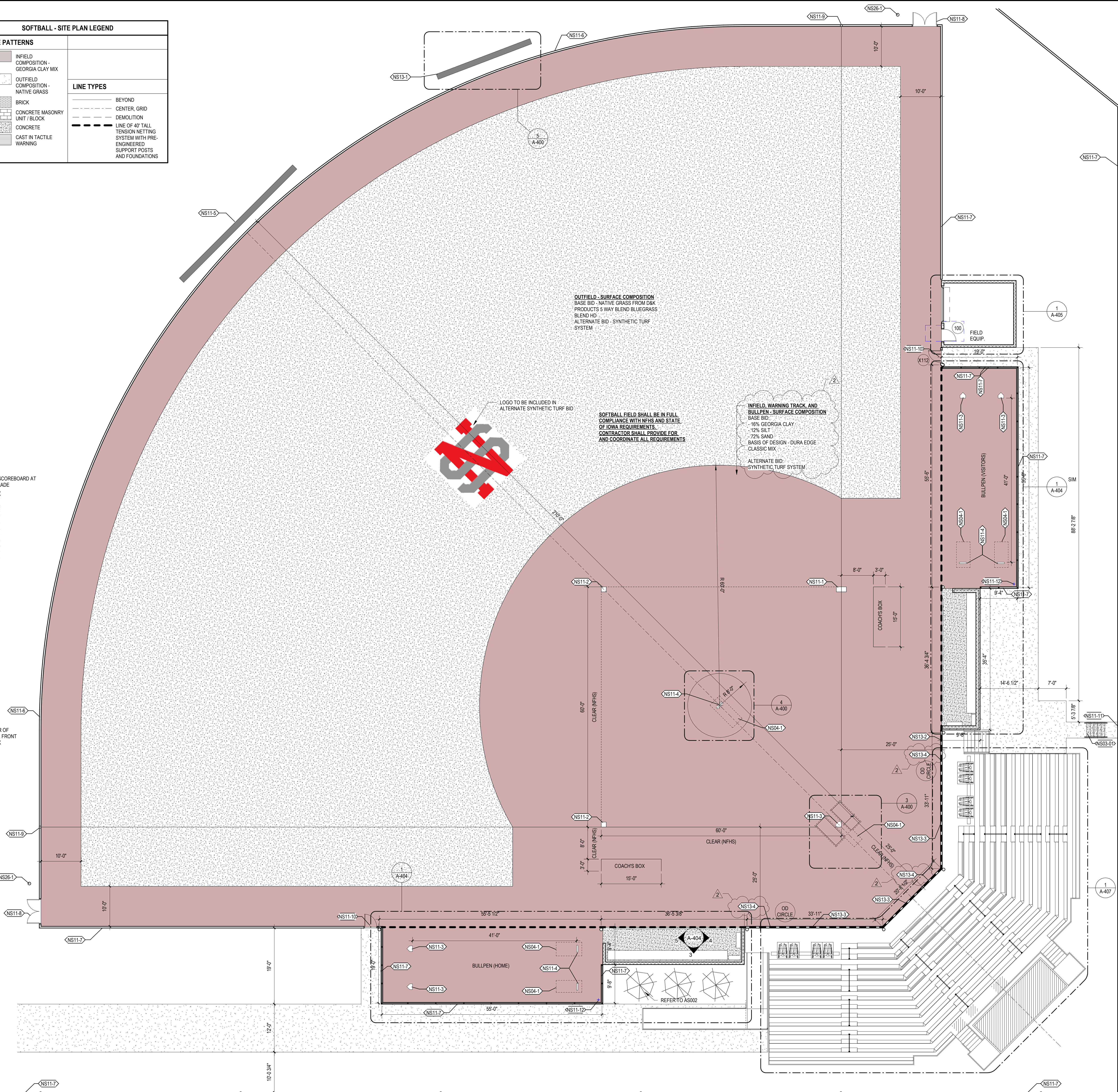
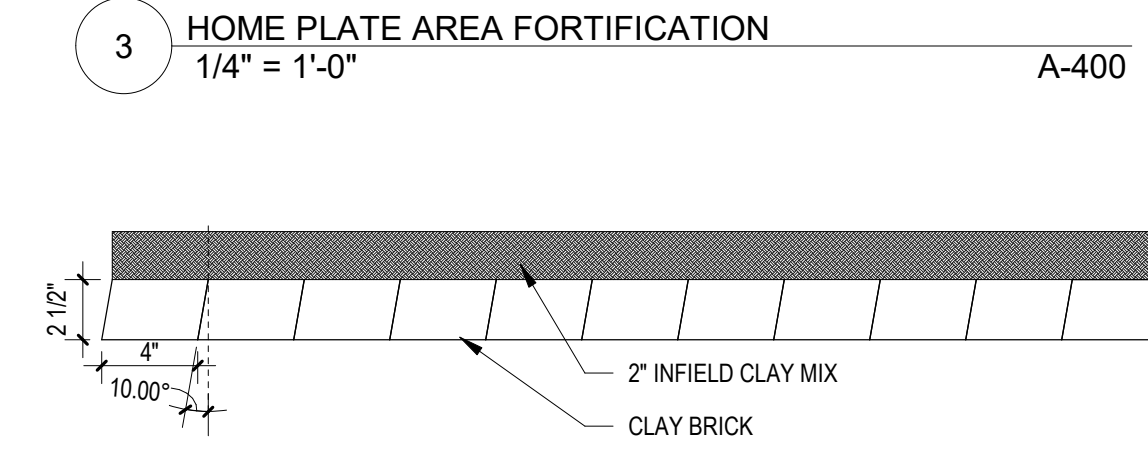
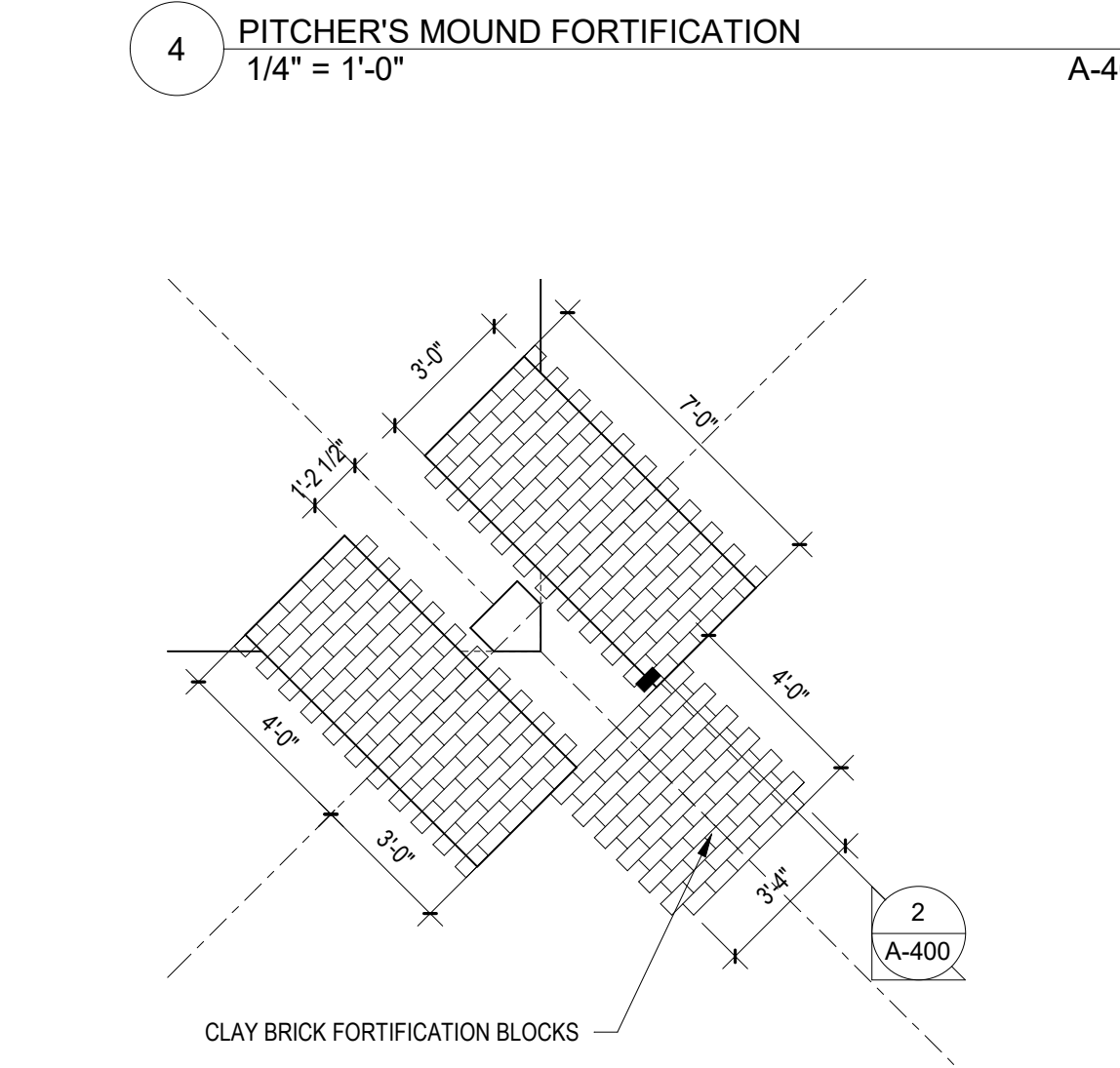
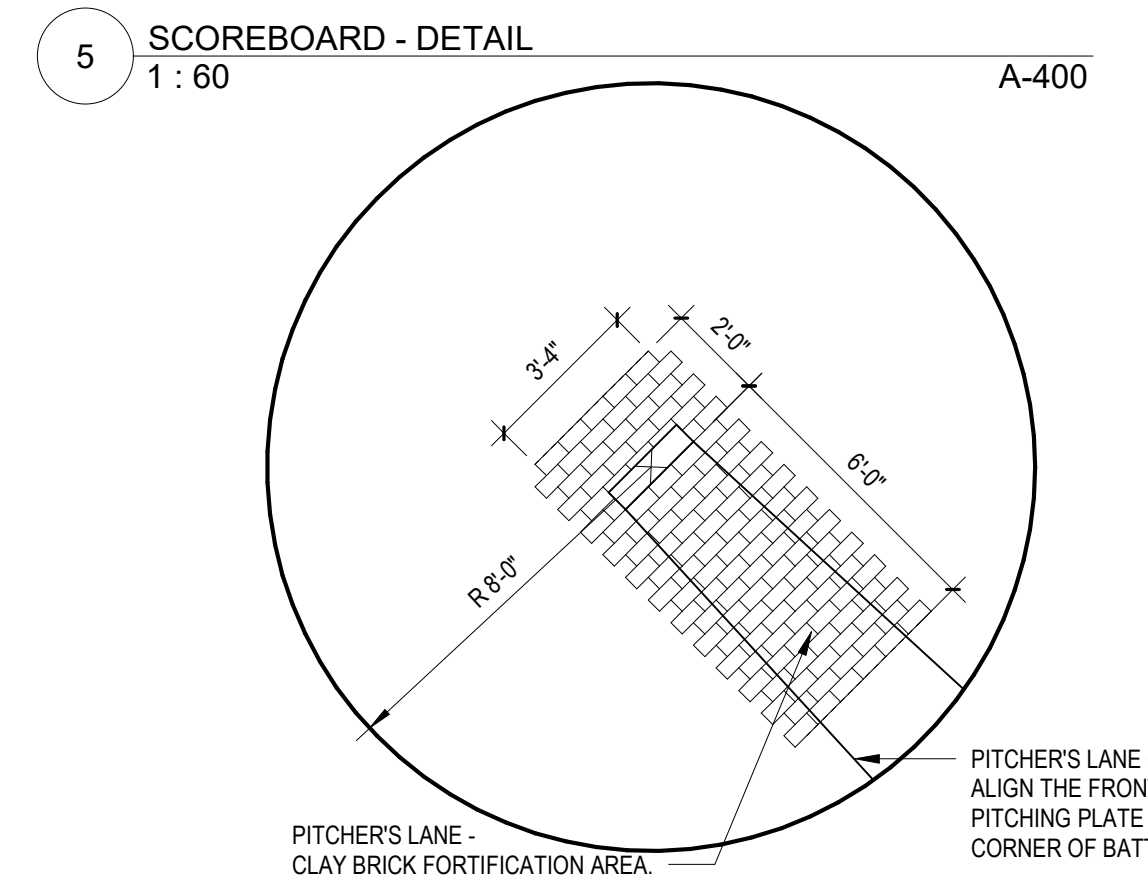
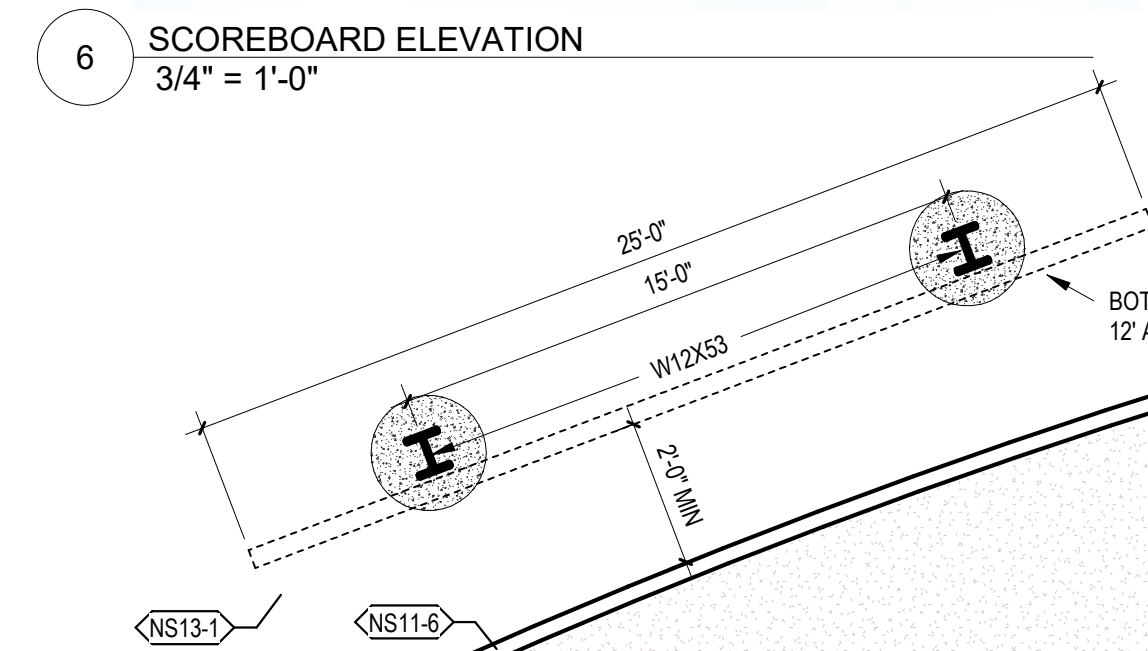
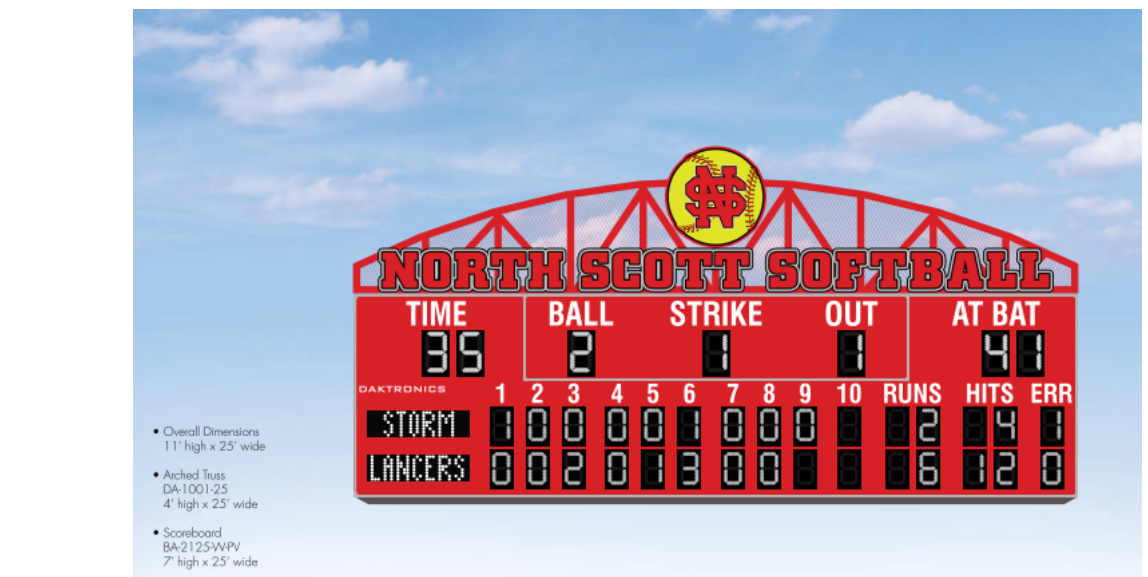
## ENLARGED LANDSCAPE AND IRRIGATION PLAN AND DETAILS

**AS002**  
CONSTRUCTION



ARCHITECTURAL PLAN NOTES - SOFTBALLFIELD	
NOTE	DESCRIPTION
S03-01	CONCRETE STEPS WITH HANDRAIL
S04-1	DURAEDGE PROLOC MOUND BLOCKS, 2.5" X 4" UNFIRE RED GUMBO CLAY BLOCKS WITH 10 DEGREE ANGLED SIDES
S11-1	DOUBLE FIRST BASE, 15" X 15" X 3" WHITE RUBBER BASES, PEBBLE EMBOSSED AND UV RESISTANT, TRIPLE REINFORCED WELDED STEEL ANCHOR SYSTEM
S11-2	15" X 15" X 3" WHITE RUBBER BASES, PEBBLE EMBOSSED AND UV RESISTANT, TRIPLE REINFORCED WELDED STEEL ANCHOR SYSTEM
S11-3	IN-GROUND 17" HOME PLATE WITH HOLLYWOOD STYLE ANCHOR SYSTEM, MOLDED RUBBER AND BEVELED BLACK BORDER
S11-4	24" PITCHER'S PLATE - DURABLE MOLDED RUBBER WITH METAL SPIKE AT ENDS
S11-5	20" TALL X 40" LONG STEEL STRUCTURE WITH RED SOLID VINYL MATERIAL ON CONCRETE FOUNDATION PIERS WITH BATTERS EYE COVERING
S11-6	8" TALL GALVANIZED STEEL BLACK VINYL COATED CHAIN LINK FENCE WITH 3" THICK HIGH IMPACT FOAM RAIL AND POST PADDING WRAPPED IN VINYL
S11-7	8" TALL GALVANIZED STEEL BLACK VINYL COATED CHAIN LINK FENCE
S11-8	8" TALL GALVANIZED STEEL BLACK VINYL COATED CHAIN LINK FENCE DOUBLE GATE SYSTEM
S11-9	FOUL BALL POST - 30" TALL WITH WING
S11-10	8" BLACK VINYL COATED FENCE GATE WITH LATCH HARDWARE
S11-11	GALVANIZED STEEL CHAIN LINK FENCE GATE WITH PANIC HARDWARE, SIGNAGE FOR "EMERGENCY EXIT ONLY, ALARM WILL SOUND"
S11-12	PROVIDE FROST PROOF YARD BIE IN YARD BOX WITH COVER, PROVIDE SIGN TO READ "NON-POTABLE WATER"
S13-1	ELECTRONIC SCOREBOARD SYSTEM - STEEL POST MOUNTED INTO CONCRETE FOUNDATIONS - SEE CONCEPT DRAWING FOR MORE INFORMATION
S13-2	40' HIGH STRAIGHT POLE AND TENSION NETTING SYSTEM, REMOVE NETTING AT DUGOUT
S13-3	40' HIGH BACKSTOP STRAIGHT POLE AND TENSION NETTING SYSTEM WITH INTEGRATED WALL PADDING
S13-4	ALUMINUM CLOSURE PIECE TO MATCH FINISH OF GRANDSTAND SYSTEM, CLOSURE PIECE TO WRAP OVER TOP OF BACK STOP PADS AND FASTEN INTO THE GRANDSTAND WALKWAY
S26-1	STEEL LIGHT AND DATA POST - SEE MUSICO DRAWINGS FOR ADDITIONAL INFORMATION

SOFTBALL - SITE PLAN LEGEND	
SURFACE PATTERNS	
	INFIELD COMPOSITION - GEORGIA CLAY MIX
	OUTFIELD COMPOSITION - NATIVE GRASS
	BRICK
	CONCRETE MASONRY UNIT / BLOCK
	CONCRETE
	CAST IN TACTILE WARNING
LINE TYPES	
	BEYOND
	CENTER, GRID
	DEMOLITION
	LINE OF 40' TALL TENSION NETTING SYSTEM WITH PRE-ENGINEERED SUPPORT POSTS AND FOUNDATIONS

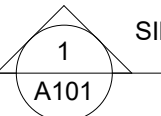


REVISIONS		
NO.	DESCRIPTION	DATE
2	ADDENDUM #2	12.06.22

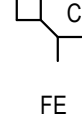


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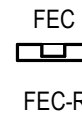
FLOOR PLAN LEGEND



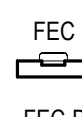
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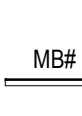
CG  
CORNER GUARD - REFER TO DETAIL




FE  
FIRE EXTINGUISHER - WALL MOUNTED



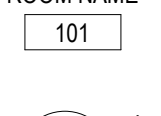
FEC  
RECESSED FIRE EXTINGUISHER AND CABINET



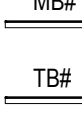
FEC-R  
FIRE RATED RECESSED FIRE EXTINGUISHER AND CABINET




FEC-B  
SEMI-RECESSED FIRE EXTINGUISHER AND CABINET



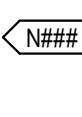
ROOM NAME AND NUMBER




MB#  
MARKER BOARD




TBS  
TACK BOARD



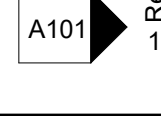
FD  
FLOOR DRAIN




AREA NOT IN CONTRACT



NW#  
NEW WORK NOTE

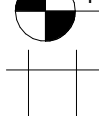


COLUMN TAG AND COLUMN CENTERLINE

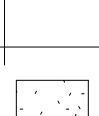


STOREFRONT, CURTAIN WALL, AND WINDOW ELEVATION

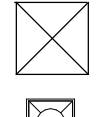
REFLECTED CEILING PLAN LEGEND



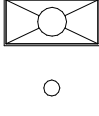
FINISHED CEILING ELEVATION



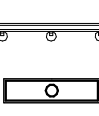
2' X 2' SUSPENDED ACOUSTICAL CEILING TILE



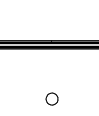
2' X 4' SUSPENDED ACOUSTICAL CEILING TILE



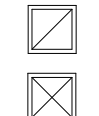
GYPSUM BOARD CEILING OR SOFFIT



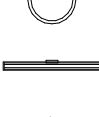
EXPOSED CEILING



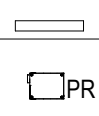
2' X 2' LUMINAIRE - REFER TO ELECTRICAL DRAWINGS



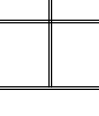
2' X 4' LUMINAIRE - REFER TO ELECTRICAL DRAWINGS



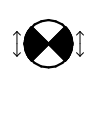
RECESSED CAN LUMINAIRE - REFER TO ELECTRICAL DRAWINGS



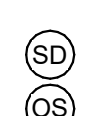
RECESSED CAN WALL WASHER - REFER TO ELECTRICAL DRAWINGS



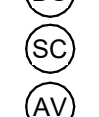
TRACK LIGHTING - REFER TO ELECTRICAL DRAWINGS



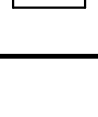
1' X 4' SURFACE MOUNTED LUMINAIRE - REFER TO ELECTRICAL DRAWINGS




RECESSED 1' X 4' INDUSTRIAL LUMINAIRE




RECESSED 4' LINEAR FIXTURE



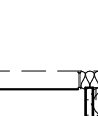
DROPPED PENDANT MOUNTED




SUSPENDED TRANSLUCENT RESIN PANEL SYSTEM




RETURN DIFFUSER - SEE MECHANICAL DRAWINGS




SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS




ROUND SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS




LINEAR SLOT SUPPLY DIFFUSER - SEE MECHANICAL DRAWINGS



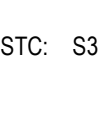
SPRINKLER HEAD - SEE FIRE PROTECTION DRAWINGS



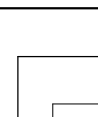
CABINET UNIT HEATER - SEE MECHANICAL DRAWINGS



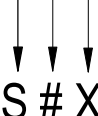
CEILING-MOUNTED PROJECTOR



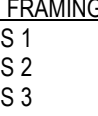
SUSPENDED UNISTRUT EQUIPMENT SUPPORT GRID - SEE PROJECT MANUAL



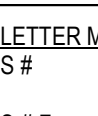
EMERGENCY WALL LIGHT




EMERGENCY EXIT SIGN



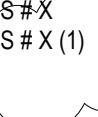
SMOKE DETECTOR



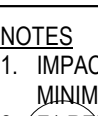
OCCUPANCY SENSOR




DAYLIGHT SENSOR



SECURITY CAMERA



AV SPEAKERS



WIRELESS ACCESS POINT

ABBREVIATIONS	
DCS	DIAPER CHANGING STATION
EW-C-1	ELECTRICAL WATER CHILLER
FD	FLOOR DRAIN
GB1	36" STAINLESS STEEL GRAB BAR
GB2	42" STAINLESS STEEL GRAB BAR
GB3	18" STAINLESS STEEL GRAB BAR - VERTICAL
GB3	18" STAINLESS STEEL GRAB BAR - HORIZONTAL
M1	24" X 36" MIRROR
PT	PAPER TOWEL DISPENSER - BY OWNER
SD	SOAP DISPENSER - BY OWNER
SND	SANITARY NAPKIN DISPOSAL
TRS	TOILET ROOM SIGNAGE
TP	TOILET TISSUE DISPENSER
UR1	URINAL
UR2	URINAL - ADA ACCESSIBLE
US	URINAL SCREEN
WC1	WATER CLOSET
WC2	WATER CLOSET - ADA ACCESSIBLE
RB-1	4" RUBBER WALL BASE

NORTH  
SCOTT  
COMMUNITY  
SCHOOL  
DISTRICT  
NEW SOFTBALL  
COMPLEX

251 E IOWA ST  
ELDRIDGE, IOWA 52748

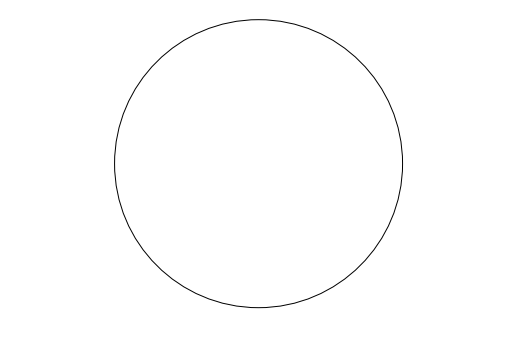
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1515 5th Avenue, Suite 108  
Moline, IL 61265  
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BACK TO COVER



SIGNATURE  
DATE

REVISIONS

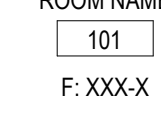
NO.	DESCRIPTION	DATE
2	ADDENDUM #2	12.06.22

PROJECT NUMBER 221124.00  
DATE OF ISSUE 12.20.2022  
DRAWN BY MC  
CHECKED BY LJ

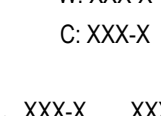
CONCESSIONS  
GENERAL NOTES AND  
DETAILS

A-401  
CONSTRUCTION

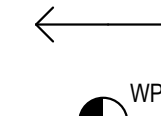
SYMBOL LEGEND




ROOM NAME AND NUMBER



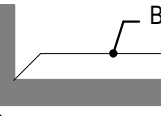
ROOM FINISH TAG




F. XXX-X  
FLOOR FINISH (UNO)




B. XXX-X  
BASE FINISH (UNO)




W. XXX-X  
WALL FINISH (UNO)




C. XXX-X  
CEILING FINISH (UNO) WHERE DESIGNATED, REFER TO REFLECTED CEILING PLANS




XXX-X XXX-X  
MATERIAL DESIGNATION




XXX-X XXX-X  
MATERIAL DIRECTION




WP  
WORK POINT



1 Ref  
A101  
FINISH ELEVATION TAG



BBT-X  
ACCENT FINISH DESIGNATION TAG



ACCENT FINISH BOUNDARY LIMITS

GENERAL FINISH NOTES

1. FLOORING IN ALL ROOMS SHALL BE SEALED CONCRETE UNLESS NOTED OTHERWISE. REFER TO REFLECTED CEILING PLANS FOR CEILING MATERIALS AND CEILING HEIGHTS.  
2. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROPERLY PREPARE ALL SURFACES IDENTIFIED TO RECEIVE NEW FINISHES IN ACCORDANCE WITH THE FINISH MANUFACTURER'S RECOMMENDATIONS.  
3. PROVIDE 4" HIGH METAL CORNER GUARDS AT ALL OUTSIDE CORNERS OF NEW GYPSUM BOARD PARTITIONS UNLESS NOTED OTHERWISE.  
4. REFER TO FINISH PLANS FOR FLOOR AND WALL PATTERNS.  
5. REFER TO FINISH LEGEND AND SPECIFICATIONS FOR MATERIAL AND COLOR INFORMATION.  
6. NUMBERS/LETTERS REFER TO COLOR. REFER TO FINISH LEGEND AND/OR SPECIFICATIONS.  
7. ALL NEW WALLS SHALL BE PAINTED PNT-1 UNLESS NOTED OTHERWISE.  
8. REFER TO INTERIOR ELEVATIONS AND FINISH PLANS FOR APPLIED PANEL PATTERN INFORMATION.  
9. ALL HOLLOW METAL DOOR FRAMES AND HOLLOW METAL WINDOW FRAMES TO BE PAINTED PNT-X (PS-X) U.N.O. IN FINISH DRAWINGS.  
10. ALL ACCESS DOORS TO BE PAINTED. COLOR TO MATCH ADJACENT SURFACE.  
11. ELECTRICAL PANELS, MECHANICAL GRILLES, LUDERS, AND ANY OTHER MISCELLANEOUS, UNFINISHED ITEMS INSTALLED IN WALL SURFACES OF CORRIDORS AND OCCUPIED SPACES SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR.  
12. METAL ACCESS LADDERS TO BE PAINTED PNT-X U.N.O.  
13. REFER TO PLANS FOR SOLID SURFACE (SSF) COLOR DESIGNATIONS.  
14. INSTALL RUBBER COVE BASE AT CASEWORK, TOE KICKS, INSIDE OF FLOORLESS CASEWORK, VERTICAL SUPPORTS AND OVER NEW FLOOR MATERIAL (U.N.O.).  
15. ALL SEALED CONCRETE FLOORS SHALL HAVE RUBBER BASE (U.N.O.).  
16. CARPET TILE (CPTI) TO BE INSTALLED IN ONE OF THE SELECTED MANUFACTURER APPROVED PATTERN INSTALLATIONS.  
17. AT BUILDING CONSTRUCTION JOINTS DO NOT BRIDGE THE FLOORING MATERIALS. INSTALL MATCHING MATERIAL WITHIN.  
18. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR SLOPES TO FLOOR DRAINS. COORDINATE ACCORDINGLY WITH INTENDED FLOOR MATERIAL.  
19. PRIOR TO THE INSTALLATION OF NEW ADHESIVES OVER CONCRETE SUBSTRATES PRIOR TO THE INSTALLATION OF FLOOR COVERING SYSTEMS, APPLY A LIGHT-COLORED HIGH STRENGTH ACRYLIC POLYMER COMPOUND (AQUEOUS FLOOR SEALER) TO ISOLATE AND CUT BACK OLD ADHESIVE FLOOR RESIDUES. ACRYLIC POLYMER COMPOUND TO BE SOLVENT FREE AND TO CONTAIN "ZERO" CALCULATED VOC'S. BASIS OF DESIGN XL BRANDS "TRISEAL". FOLLOW MANUFACTURERS RECOMMENDATION FOR INTENDED APPLICATION.  
20. IT IS THE RESPONSIBILITY OF ALL TRADES TO COORDINATE PREPARATION OF SURFACES TO RECEIVE FINISH PRODUCT. CONSULT WITH MANUFACTURERS RECOMMENDED PRACTICES.

GENERAL PAINTING NOTES

1. ALL NEW CONSTRUCTION AND IDENTIFIED EXISTING CONSTRUCTION TO REMAIN SHALL BE PRIME AND FINISH PAINTED UNLESS MATERIALS ARE PRE-FINISHED. REFER TO THE PROJECT MANUAL.  
A. NEW PARTITIONS ARE TO BE PRIME PAINTED FOR FULL HEIGHT OF PARTITION (U.N.O.).  
B. SIGHT-EXPOSED SURFACES OF NEW PARTITIONS ARE TO BE FINISHED PAINTED.  
C. SIGHT-EXPOSED SURFACES OF SOFFITS SHALL BE PRIME AND FINISHED PAINTED.  
2. ALL WALLS IN EXISTING ROOMS IN WHICH WORK IS OCCURRING:  
A. REPAIR HOLES, DEFECTS, ETC. IN EXISTING WALLS.  
B. AT REPAIRS AND UNPAINTED CONCRETE BLOCK PROVIDE BLOCK FILL PAINT AND TWO FINISH COATS OF PAINT.  
C. AT REPAIRS AND UNPAINTED GYPSUM BOARD AND/OR PLASTER PROVIDE PRIMER AND TWO FINISH COATS OF PAINT.  
3. PROVIDE ONE FINISH COAT OF PAINT OVER EXISTING PAINTED WALLS.  
4. IN OCCUPIED SPACES IN AREAS OF NEW CONSTRUCTION, ALL SIGHT-EXPOSED MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND TECHNOLOGY COMPONENTS INCLUDING, BUT NOT LIMITED TO, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, ETC. SHALL BE PAINTED. DATA CABLING SHALL NOT BE PAINTED.  
5. AT AREAS OF EXPOSED ROOF STRUCTURE IDENTIFIED TO BE PAINTED, ALL SIGHT-EXPOSED ITEMS SHALL BE PAINTED INCLUDING, BUT NOT LIMITED TO, ROOF DECK, STRUCTURE, DUCTWORK, PIPING, FITTINGS, CONDUIT, BOXES, HANGERS, ETC.  
6. ALL WALLS TO BE FINISH PAINTED PNT-1 WITH EGGSHELL FINISH (U.N.O.).  
A. INTERIORS TO BE PAINTED PNT-1 WITH SEMI-GLOSS FINISH (U.N.O.).  
B. ALL EXTERIOR TO BE PAINTED WITH COLOR TO BE SELECTED BY ARCHITECT WITH SEMI-GLOSS FINISH (U.N.O.).

GENERAL CEILING FINISH NOTES

1. REFER TO PAINT SPECIFICATIONS, FINISH DRAWINGS AND CEILING PLANS FOR CEILING AND SOFFIT COLOR INFORMATION.  
2. REFER TO ACOUSTICAL CEILING PANELS (ACT) SPECIFICATION, AND CEILING PLANS FOR ACT INFORMATION.  
3. WHERE EXPOSED CEILINGS ARE CALLED TO BE PAINTED, PAINT ALL EXPOSED ITEMS, INCLUDING, BUT NOT LIMITED TO, FRAMING, DECK, DUCTWORK, PIPING & CONDUIT. DO NOT PAINT H, V, E, F, P LABELS, MOVING PARTS, OR COMPONENTS THAT ARE EXPECTED TO REMAIN UNPAINTED.  
4. ALL GYPSUM BOARD / PLASTER CEILINGS AND SOFFITS TO BE PAINTED PNT-1 (IPS-X) (U.N.O.) ON CEILING AND/OR FINISH PLANS.  
5. GYPSUM BOARD CEILINGS IN SHOWER AREAS AND ENTRY VESTIBULES TO BE PAINTED PNT-1 (IPS-B).  
6. IN ALL MAIN CUSTODIAL AREAS AND MECHANICAL ROOMS, STEEL, DECKING AND EXPOSED STRUCTURE AND DUCTWORK WITH ASSOCIATE SUPPORTS NOT TO BE PAINTED (U.N.O.) IN FINISH PLANS

INTERIOR PAINT SYSTEM

IPS-LF LATEX INTERIOR, HIGH PERFORMANCE ARCHITECTURAL, FLAT  
IPS-LE LATEX INTERIOR, HIGH PERFORMANCE ARCHITECTURAL, EGGSHELL  
IPS-LS LATEX INTERIOR, HIGH PERFORMANCE ARCHITECTURAL, SEMI-GLOSS  
IPS-LV LATEX INTERIOR, INSTITUTIONAL LOW ODOR/VOC, FLAT  
IPS-LV LATEX INTERIOR, INSTITUTIONAL LOW ODOR/VOC, EGGSHELL  
IPS-LV LATEX INTERIOR, INSTITUTIONAL LOW ODOR/VOC, SEMI-GLOSS  
IPS-D DRY FALL, WATER-BASED, FLAT  
IPS-AF ALKYL, WATER-BASED, FLAT  
IPS-AE ALKYL, WATER-BASED, EGGSHELL  
IPS-AS ALKYL, WATER-BASED, SEMI-GLOSS  
IPS-AG ALKYL, WATER-BASED, GLOSS  
IPS-ES EPOXY-MODIFIED LATEX, INTERIOR, SEMI-GLOSS  
IPS-MC MULTICOLOR INTERIOR PAINT

STUD PARTITION

AT TOP OF WALL PROVIDE BATT INSULATION, PROVIDE FIRE SAFING AND SEAL TOP OF WALL AT ALL FIRE AND SMOKE PARTITIONS WITH UL-APPROVED FIRE STOP SYSTEM

BOTTOM OF CEILING, REFER TO REFLECTED CEILING PLAN - TYPICAL

PROVIDE BLOCKING AS REQUIRED AT ALL DOOR STOPS, GRAB BARS, HANDRAILS, WALL BRACKETS, CASEWORK, ETC.

5/8" GYPSUM BOARD

METAL STUDS AT 16" O.C.

AT RATED WALLS, PROVIDE 25 GAUGE METAL STUDS OR HEAVIER

SET BOTTOM TRACK IN 2 LINES OF CONTINUOUS ACOUSTIC SEALANT

WALL BASE, REFER TO FINISH PLANS FOR LOCATIONS

UL: U419 (1HR OR 2HR) OR ARCHITECT APPROVED EQUAL. REFER TO SAFETY REFERENCE PLANS FOR LOCATIONS OF RATED PARTITIONS

STC: S3F: 40, S3FA: 49, S3F(3): ..., S3FA(3): ..., S3F(4): 48, S3FA(4): 56

STUD PARTITION

FLOOR / ROOF STRUCTURE ABOVE

BOTTOM OF CEILING, REFER TO REFLECTED CEILING PLAN - TYPICAL

CORNER BEAD - TYPICAL

5/8" GYPSUM BOARD EACH SIDE

PROVIDE BLOCKING AS REQUIRED AT ALL DOOR STOPS, GRAB BARS, HANDRAILS, WALL BRACKETS, CASEWORK, ETC.

METAL STUDS AT 16" O.C.

HOLD DOWN ANCHOR, SIMPSON HTTS OR ARCHITECT APPROVED EQUAL

WALL BASE, REFER TO ROOM FINISH PLAN FOR LOCATIONS

UL: N/A

STC: N/A

STUD PARTITION

Denotes Framing Depth

LETTER MODIFIER(S) (REFER TO BELOW)

LAYER MODIFIER(S)

INDICATES LAYERS OF GYPSUM BOARD

FRAMING DEPTH "F"

S 1 1 5/8" STUD DEPTH

S 2 2 1/2" STUD DEPTH

S 3 3 5/8" STUD DEPTH

S 6 6" STUD DEPTH

LETTER MODIFIERS "X"

S # FRAMING FULL HEIGHT TO STRUCTURE ABOVE AND GYPSUM BOARD TO 6" ABOVE CEILING

S # F FRAMING AND GYPSUM BOARD FULL HEIGHT TO STRUCTURE ABOVE (STC: 40-48)

S # A MINERAL FIBER SOUND ATTENUATION BLANKETS FULL DEPTH OF STUD (STC: 40-48)

S # FP FRAMING AND PLYWOOD FULL HEIGHT TO STRUCTURE ABOVE

LAYER MODIFIERS "M"

S # X TWO (2) LAYERS OF GYPSUM BOARD, ONE (1) ON EACH SIDE (1HR)

S # X (1) ONE (1) LAYER OF PLYWOOD AND ONE (1) LAYER OF GYPSUM BOARD ON EACH SIDE, REFER TO DRAWINGS

NOTES

1. IMPACT-RESISTANT / ABUSE-RESISTANT GYPSUM BOARD REQUIRES 20 GA MINIMUM STUDS

2. "F1" REFERS TO 5/8" GYPSUM BOARD OVER 2" METAL FURRING STRIPS

3. PROVIDE 5/8" PLYWOOD

STUD PARTITION

Denotes Framing Depth

LETTER MODIFIERS "X"

N/A

FRAMING DEPTH "F"

S 3 3 5/8" STUD DEPTH

S 6 6" STUD DEPTH

LETTER MODIFIERS "X"

N/A

LAYER MODIFIERS "M"

N/A

NOTES

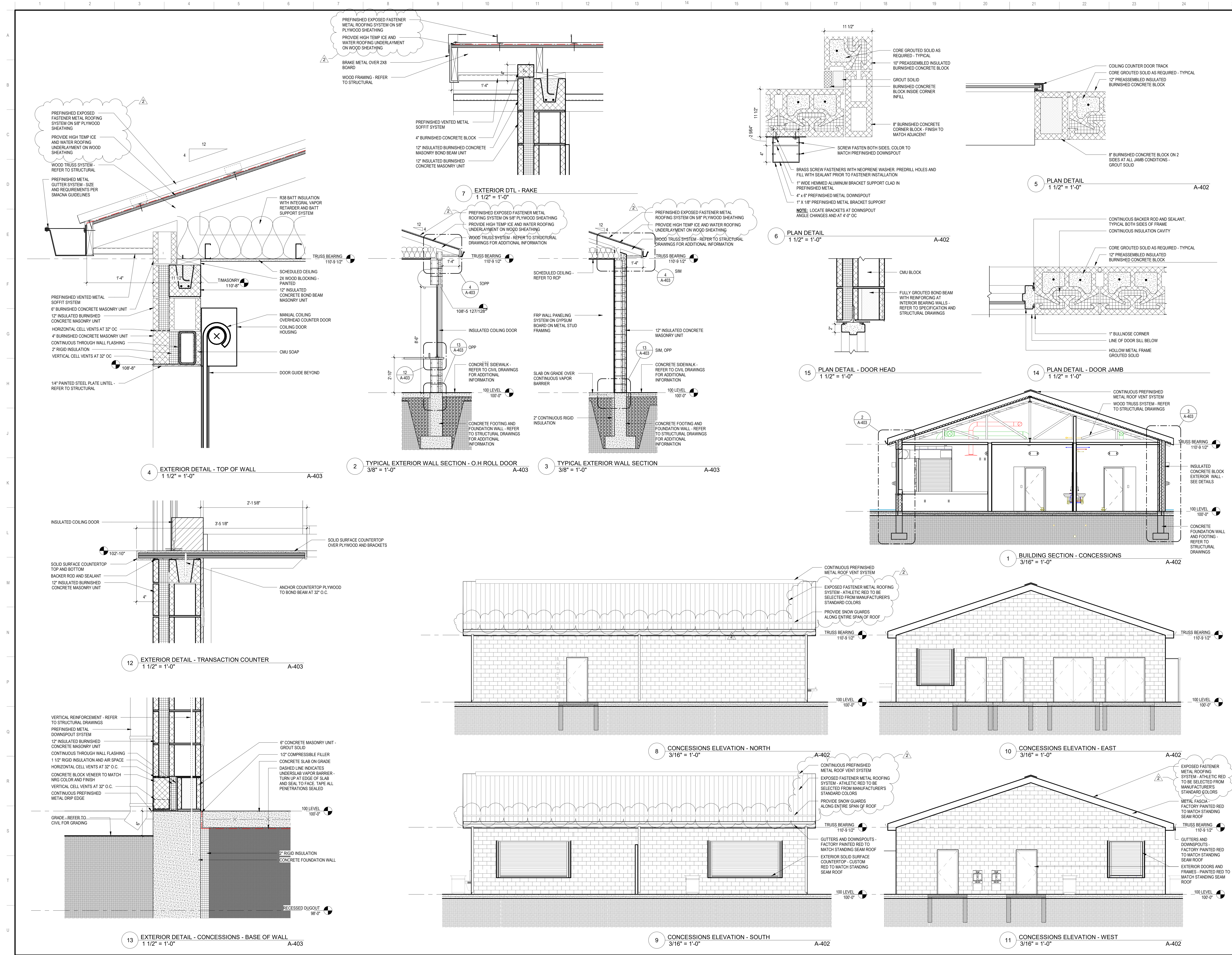
1. REFER TO FLOOR PLANS AND INTERIOR ELEVATIONS FOR PARTITION HEIGHT.

2. IMPACT-RESISTANT / ABUSE-RESISTANT GYPSUM BOARD REQUIRES 20 GA MINIMUM STUDS









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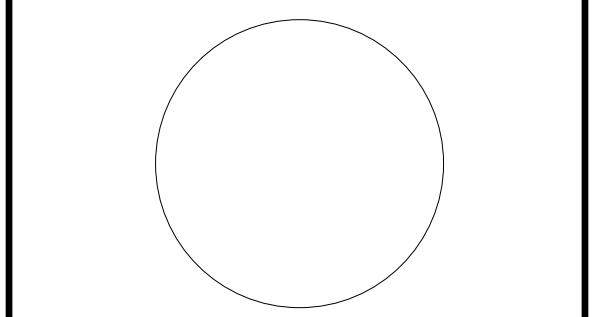
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2	ADDENDUM #2	12.06.22

PROJECT NUMBER 221124.00  
DATE OF ISSUE 12.20.2022  
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CONCESSION  
ELEVATIONS & DETAILS

A-403  
CONSTRUCTION



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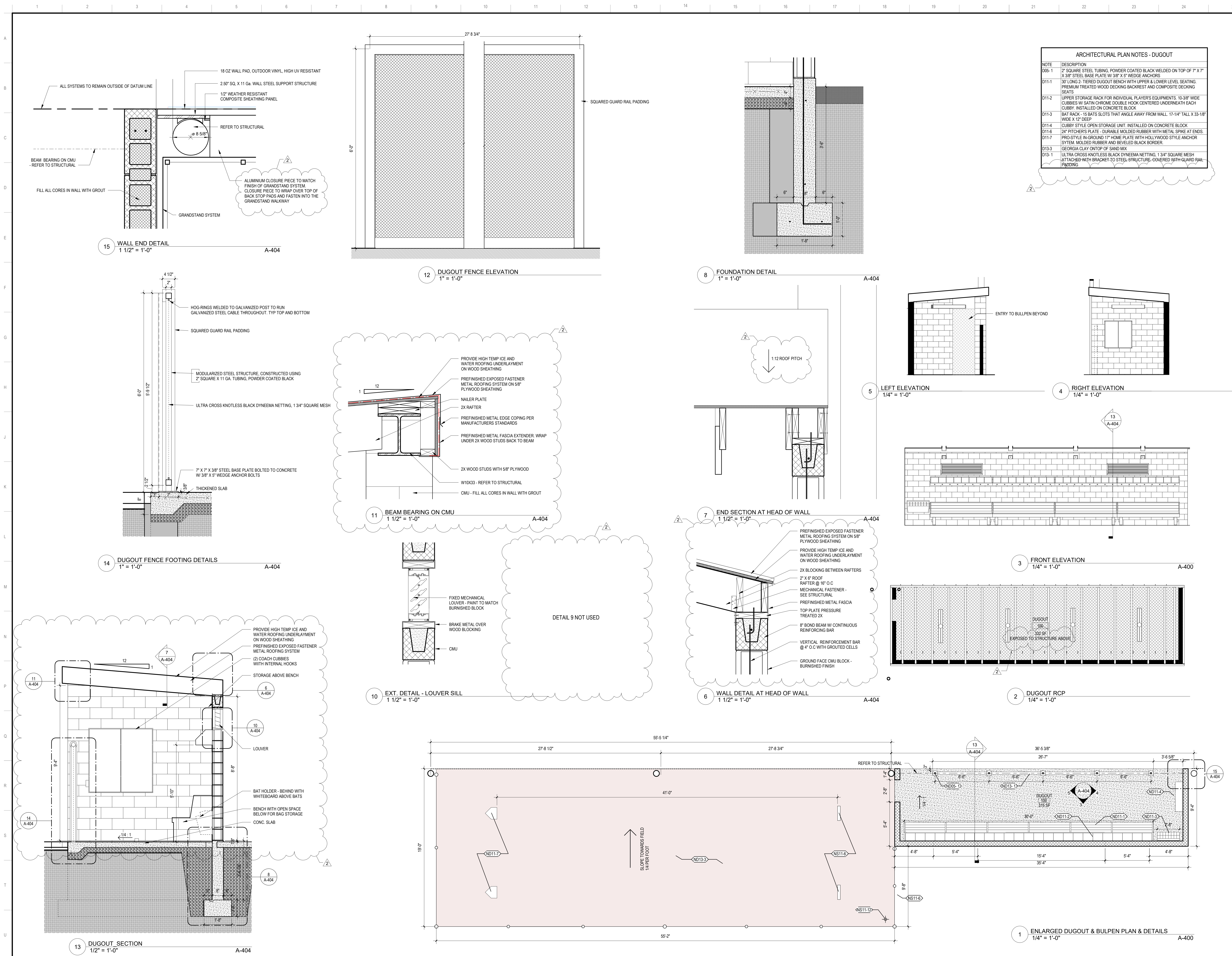
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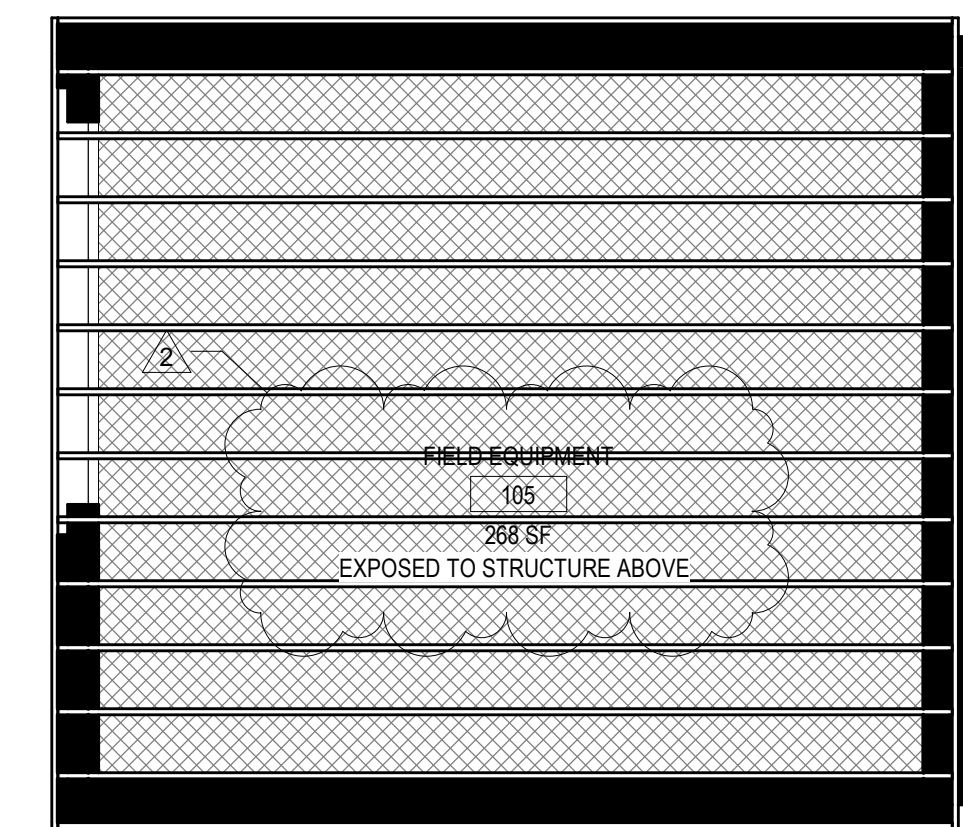
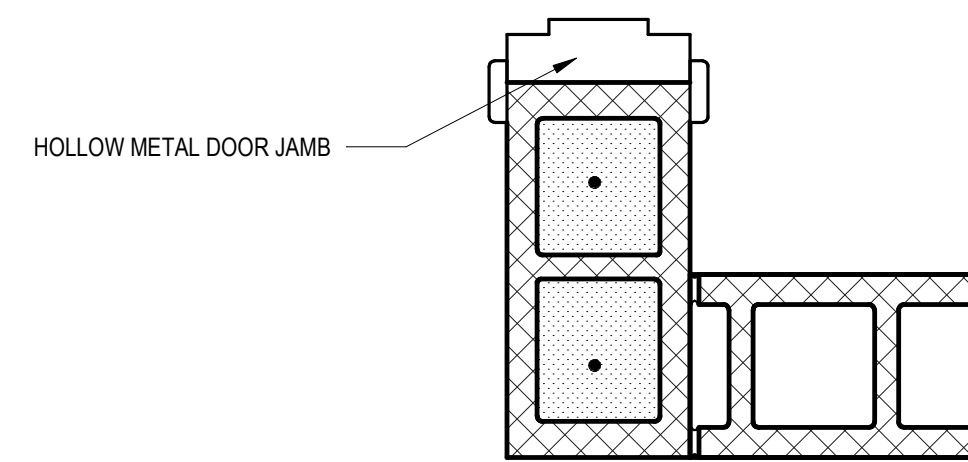
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DATE OF ISSUE	12.20.2022
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## ENLARGED DUGOUT PLANS AND DETAILS

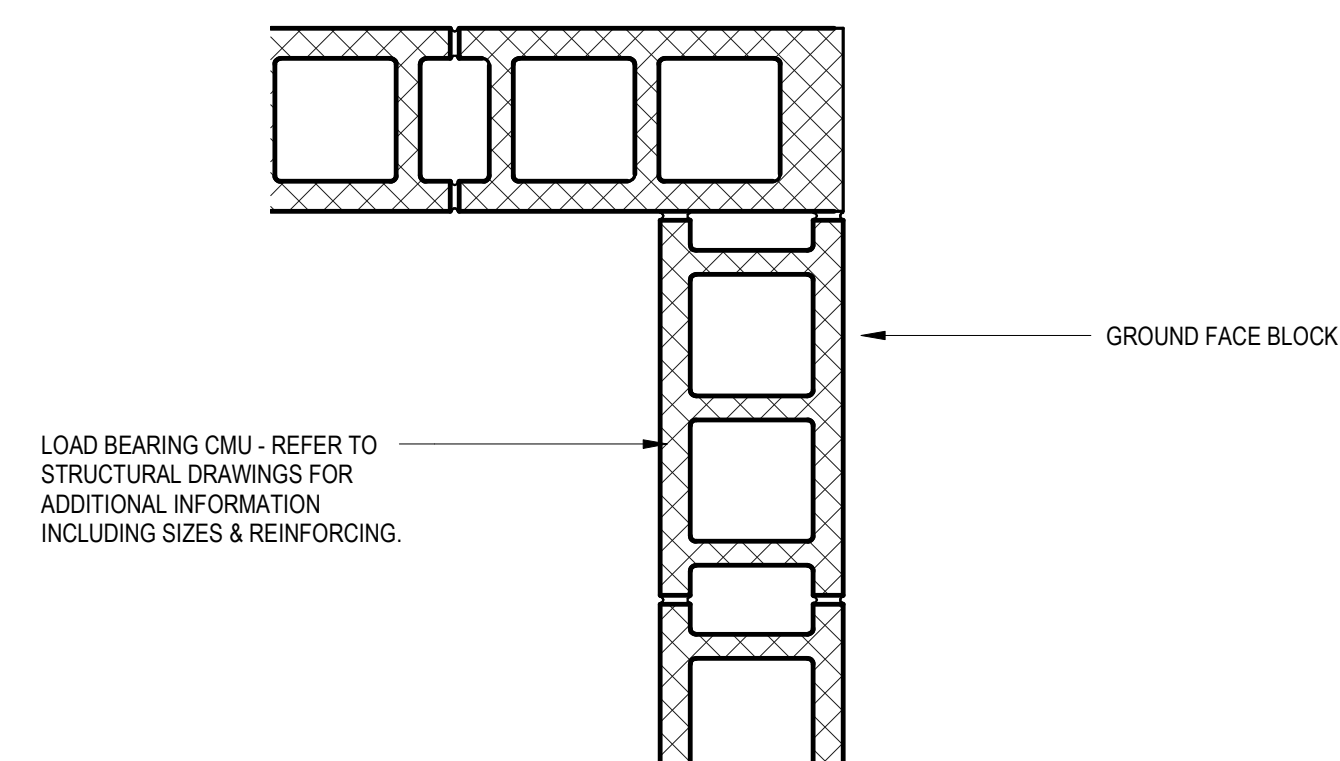
**A-404**  
CONSTRUCTION







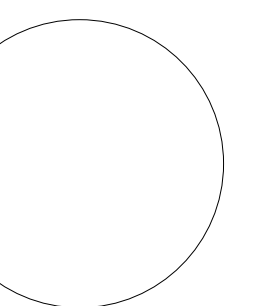
2 FIELD EQUIP. RCP  
1/4" = 1'-0"



Site plan of the Field Equipment area. The plan shows a rectangular area with a perimeter of 16'-8" (top) and 16'-3" (right). The area is divided into sections by a vertical line and a horizontal line. The top section is labeled 100A and the bottom section is labeled 100. The area is surrounded by a cloud-like boundary. Access points are marked with triangles and labeled 2, 3, 4, and 5. The area is labeled FIELD EQUIPMENT 105 268 SF. Dimensions are given in feet and inches: 16'-8" (top), 16'-3" (right), 9'-4" (left), 1'-4" (top-left), 3'-4" (middle-left), 3'-4" (bottom-left), and 1'-4" (bottom-left).

1 ENLARGED FIELD EQUIP PLAN  
1/4" = 1'-0" A-400

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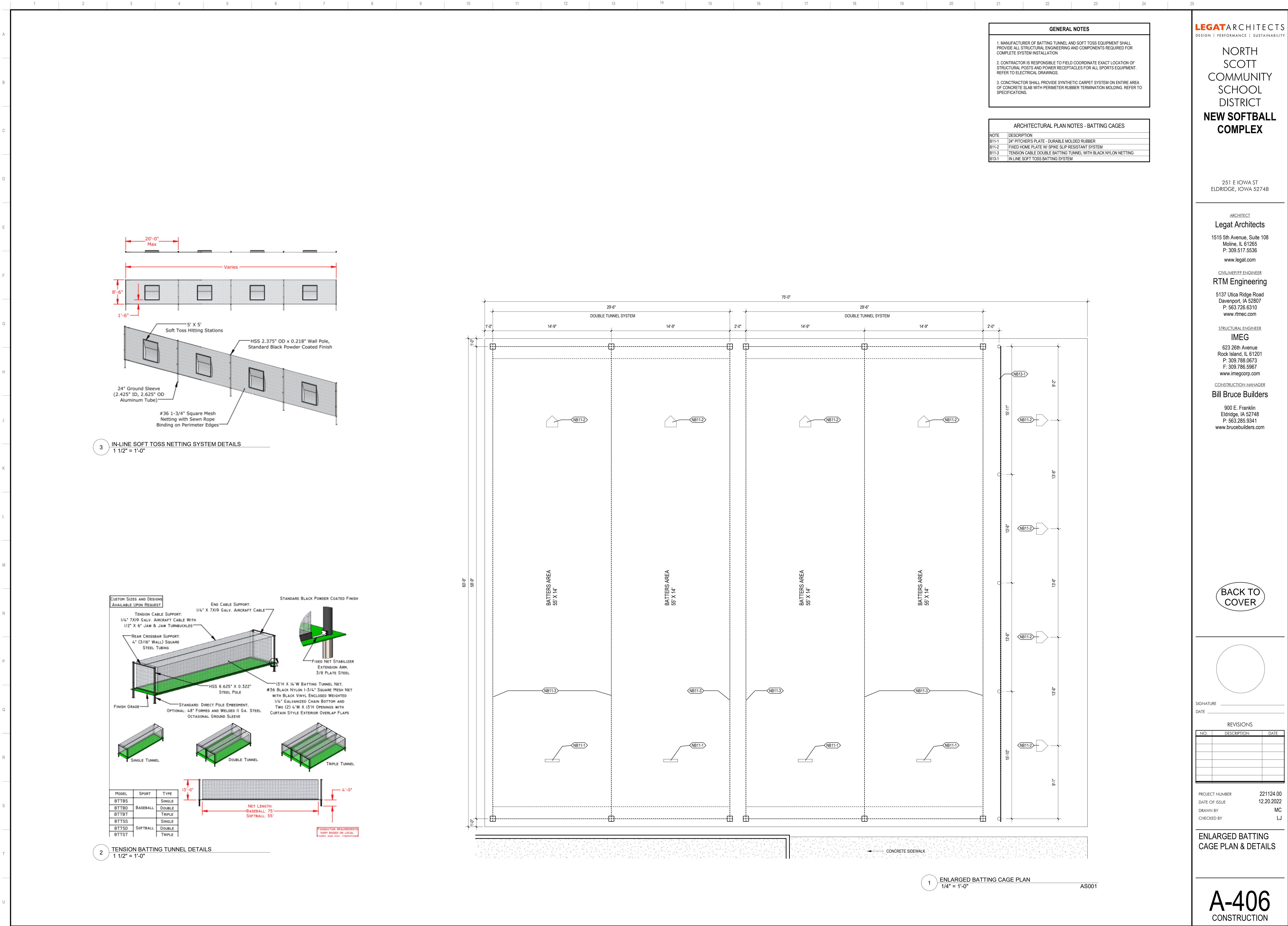
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ENLARGED FIELD  
EQUIP. PLAN & DETAILS

# A-405

## CONSTRUCTION





**GENERAL NOTES**

1. MANUFACTURER OF BATTING TUNNEL AND SOFT TOSS EQUIPMENT SHALL PROVIDE ALL STRUCTURAL ENGINEERING AND COMPONENTS REQUIRED FOR COMPLETE SYSTEM INSTALLATION

2. CONTRACTOR IS RESPONSIBLE TO FIELD COORDINATE EXACT LOCATION OF STRUCTURAL POSTS AND POWER RECEPTACLES FOR ALL SPORTS EQUIPMENT. REFER TO ELECTRICAL DRAWINGS.

3. CONTRACTOR SHALL PROVIDE SYNTHETIC CARPET SYSTEM ON ENTIRE AREA OF CONCRETE SLAB WITH PERIMETER RUBBER TERMINATION MOLDING. REFER TO SPECIFICATIONS.

**ARCHITECTURAL PLAN NOTES - BATTING CAGES**

NOTE	DESCRIPTION
B11-1	24" PITCHER'S PLATE - DURABLE MOLDED RUBBER
B11-2	FIXED HOME PLATE W/ SPIKE SLIP RESISTANT SYSTEM
B11-3	TENSION CABLE DOUBLE BATTING TUNNEL WITH BLACK NYLON NETTING
B13-1	IN LINE SOFT TOSS BATTING SYSTEM

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**ENLARGED BATTING  
CAGE PLAN & DETAILS**

**A-406**  
CONSTRUCTION



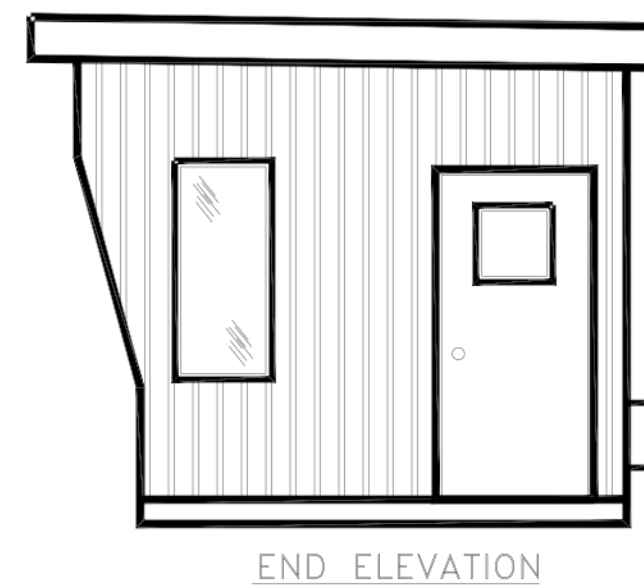




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## ENLARGED PRESSBOX PLANS

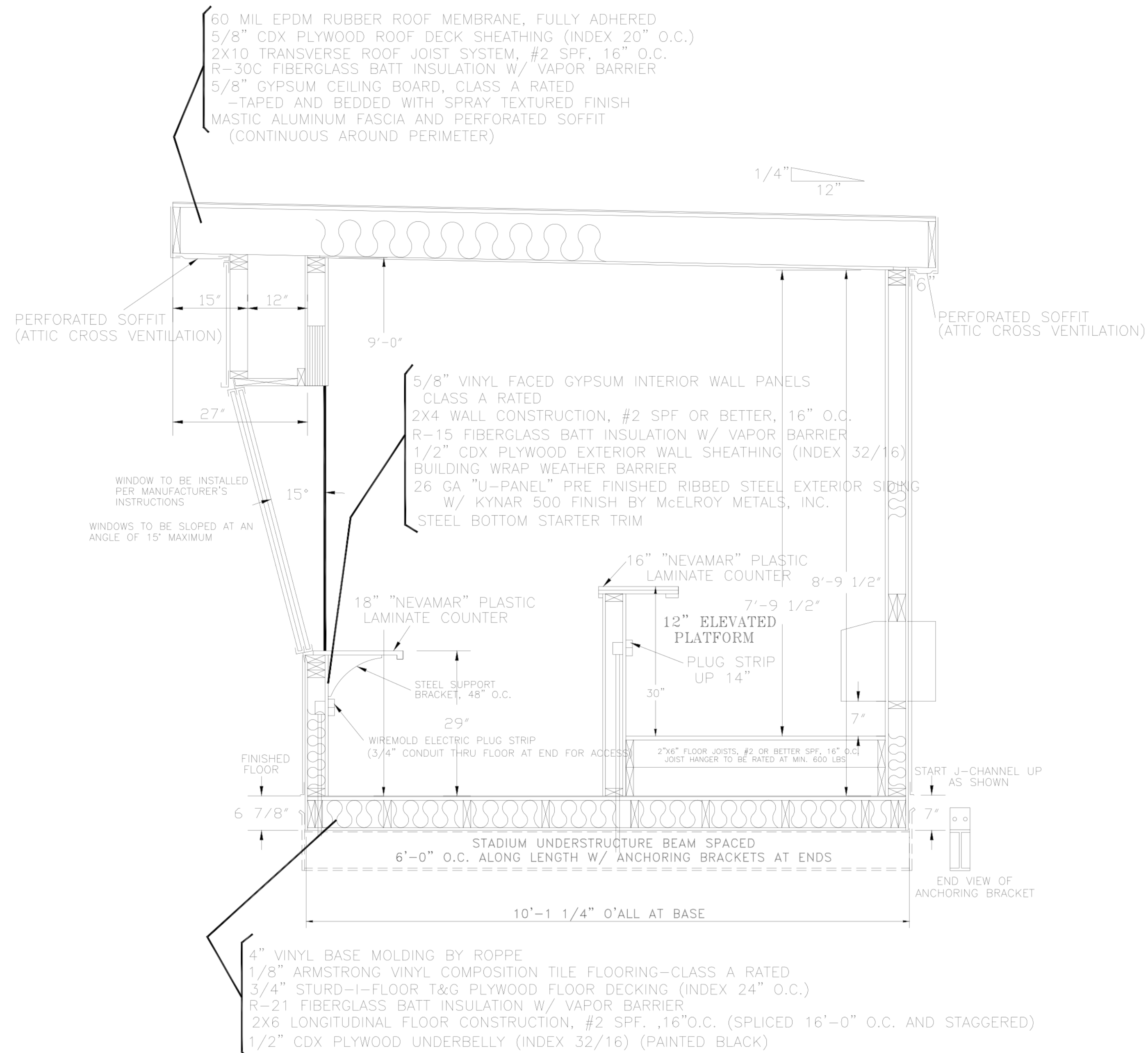
**A-408**  
CONSTRUCTION



SYMBOL	DESCRIPTION
	SATCO #626-1054 45W/LED/1x4xFLUSH/3K/WH 45 WATT, 3000K LED, 1'x4' SURFACE MOUNTED LIGHT (ELECTRICAL BOX IN CENTER)
	LITHONIA #ECC-R-REM-LED EMERGENCY COMBINATION EXIT/FLOOD LIGHT W/ MIN. 90 MINUTE BATTERY BACKUP (WALL MOUNTED)-6\"/>
	LITHONIA #ERE-SLG-WP REMOTE EMERGENCY LIGHT HEAD (GRAY)-MOUNTED ON SOFFIT
	SATCO #59013 4\"/>
	LUTRON #MOSPPSMLA (1) POLE OCCUPANCY SENSOR SWITCH W/ MANUAL OVERRIDE -WALL MOUNTED-UP 48\"/>
	INTERMATIC #E1500 PROGRAMMABLE ASTRONOMICAL TIMER SWITCH (LIGHT ALMOND)
	LUTRON #MOSPPSMLA (1) POLE OCCUPANCY SENSOR SWITCH W/ MANUAL OVERRIDE -WALL MOUNTED
	PRESS-A-TIMER #3232-LA SPEC. GRADE, GROUNDING TYPE, RECEPT (LIGHT ALMOND) -GFI WERE NOTED
	ELECTRICAL DISTRIBUTION LOAD CENTER W/ MAIN DISCONNECT-120/240V, SINGLE PHASE, 100 AMP CAPACITY, SIZE 10\"/>
	#5400 SERIES CONTINUOUS ELECTRICAL WIREMOLD (WORY) W/ RECEPTS AND COMMUNICATION JACK COVERS 48\"/>
	2 1/2\"/>
	ZONELINE #A245E120AB 3.5 KW ELECTRIC WALL MOUNT HEAT/COOL UNIT-UP 7\"/>
	AUDIO RACK-12\"/>
	SPEAKER-2\"/>
	AUDIO CONTROLS-DOUBLE PULL BOX LOCATED IN WIREMOLD
	WAP ANTENNA - 4\"/>
	SECURITY CAMERA - 2\"/>
	DOUBLE J-BOX - 2\"/>

DOOR/WINDOW SCHEDULE	
SYMBOL	DISCRPTION
Ⓐ	56"X90" MASONITE "BELLEVILLE" INSULATED FIBERGLASS ENTRY DOOR W/ SOLID VINYL JAMBS, WEATHERSTRIPPING, HEAVY DUTY RETENTION CHAIN, ALUMINUM THROSLCKED, 16" WINDOW AND COMMERCIAL LEVER HANDLED KEYED LOCKSET (WINDOW TO BE SAFETY GLASS) (ADA THRESHOLD)
Ⓑ	126"X54" LUNDAG #3300 "EARTHWISE SERIES" VINYL DOUBLE HORIZONTAL SLIDER WINDOW W/ 3/4" INSULATED, 270 LOW-E, ARGON FILLED TEMPERED SAFETY GLASS AND SCREENS
Ⓒ	24"X54" LUNDAG #3300 "EARTHWISE SERIES" VINYL PICTURE WINDOW W/ INSULATED, 270 LOW-E, ARGON FILLED TEMPERED SAFETY GLASS AND SCREENS

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FINISH SCHEDULE	
<b>INTERIOR:</b>	<b>COLOR:</b>
WALL: FACED GYPSUM	White
SPRAY TEXTURED CEILING	White
2" ACSTIC LAMINATE COUNTER	
BASE FLOOR MOLDING	
VINYL COMPOSITION TILE	
<b>EXTERIOR:</b>	<b>BLACK</b>
EPDM ROOF	
SIDING	
BOTTOM STARTER TRIM	
FASCIA	
SOFFIT	
WINDOWS	
DOORS	

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- GENERAL NOTES:**
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  - ALL PLUMBING SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
  - REFER TO SHEET P-000 FOR LEGEND.
  - PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAIN LOCATIONS PRIOR TO INSTALLATION.

- # KEYNOTES**
- NEW 2" CW LINE TO CONTINUE TO THE EXISTING PRACTICE FACILITY WATER MAIN. SEE SHEET P-101 FOR MORE DETAILS. COORDINATE WITH CIVIL DRAWINGS FOR SITE CONNECTION.
  - NEW 2" CW LINE TO CONTINUE TO CONCESSION.
  - 3" CW PIPE UP FROM BELOW GROUND. COORDINATE PIPE ROUTING WITH IRRIGATION DRAWINGS.

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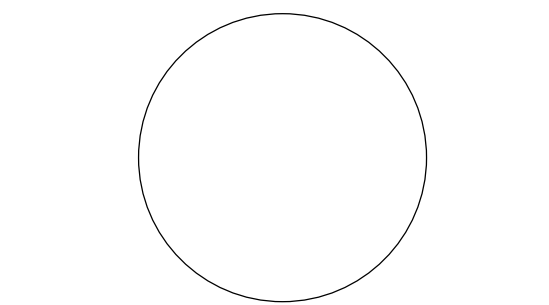
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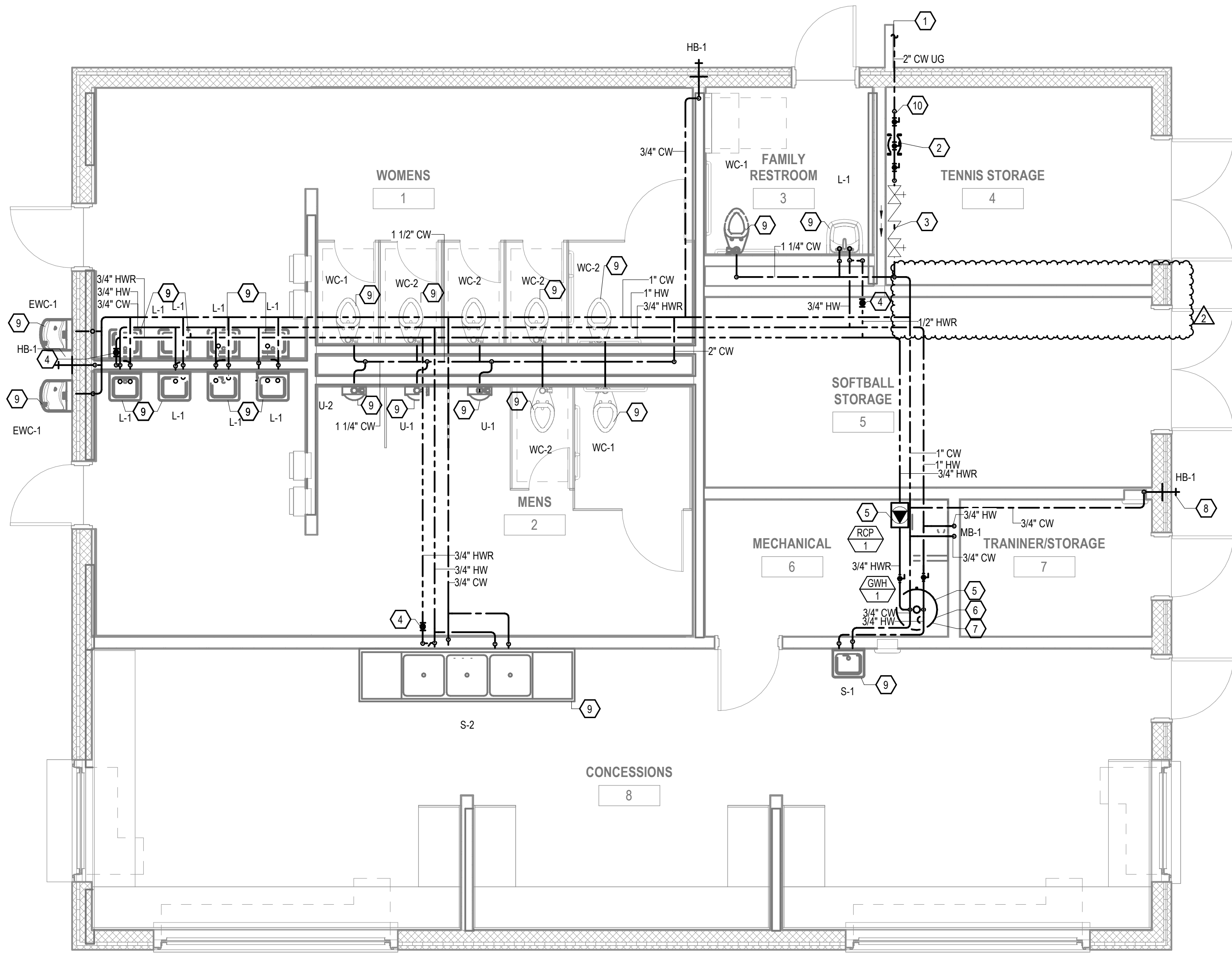
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2	ADDENDUM #2	12.05.22

PROJECT NUMBER 221124.00  
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PLUMBING - DOMESTIC  
WATER - SITE PLAN





**1 PLUMBING CONCESSION PLAN - DOMESTIC WATER**  
P-103 1/4" = 1'-0"

- GENERAL NOTES:**
- DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER TO RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
  - ALL PLUMBING SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
  - REFER TO SHEET P-000 FOR LEGEND.
  - PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAIN LOCATIONS PRIOR TO INSTALLATION.

- # KEYNOTES**
- NEW 2" CW LINE TO CONTINUE TO THE EXISTING PRACTICE FACILITY WATER MAIN. SEE SHEET P-101 FOR MORE DETAILS. COORDINATE WITH CIVIL DRAWINGS FOR SITE CONNECTION.
  - WATER METER ASSEMBLY. PROVIDE HOSE BIB AND SHUT OFF VALVE TO DRAIN LINES IN WINTER MONTHS. IN ORDER TO DRAIN DOWN SYSTEM. STEP 1: SHUT OFF WATER AT THE METER. THERE ARE 2 ISOLATION VALVES ON BOTH SIDES OF METER. TURN VALVES TO "OFF" POSITION.
  - BACKFLOW PREVENTER
  - BALANCING VALVE TO BE INSTALLED ON HOT WATER RETURN LINE BEFORE CONNECTION TO HOT WATER LINE.
  - IN ORDER TO DRAIN DOWN BUILDING FOR WINTER MONTHS: STEP 2: TURN OFF ELECTRICAL TO WATER HEATER AND CIRCULATION PUMP. TURN OFF ELECTRICAL AT PANEL OR LOCAL DISCONNECT.
  - IN ORDER TO DRAIN DOWN BUILDING FOR WINTER MONTHS: STEP 3: CLOSE GAS VALVE TO WATER HEATER IN ORDER TO PREVENT ANY GAS LEAKS DURING WINTER.
  - IN ORDER TO DRAIN DOWN BUILDING FOR WINTER MONTHS: STEP 4: OPEN DRAIN DOWN VALVE AT BOTTOM OF WATER HEATER. ONCE WATER HEATER IS DRAINED CLOSE IT TO ENSURE ON START UP IN SPRING THERE IS NO FLOODING.
  - IN ORDER TO DRAIN DOWN BUILDING FOR WINTER MONTHS: STEP 5: OPEN HOSE BIB TO LET WATER DRAIN OUT TO GRADE. CLOSE VALVE ONCE DRAIN IS COMPLETE.
  - IN ORDER TO DRAIN DOWN BUILDING FOR WINTER MONTHS: STEP 6: GO THROUGH AND ENGAGE ALL PLUMBING FIXTURES TO BLEED OUT BRANCH LINES FOR REMAINING WATER IN PIPES.
  - HEAT TRACE THE DOMESTIC WATER MAIN FROM WHERE PIPE STUBS UP FROM CONCRETE SLAB THROUGH TO SHUT OFF VALVE PRIOR TO METER. INSULATE OVER HEAT TRACING AND PIPE WITH 2" THICK INSULATION.

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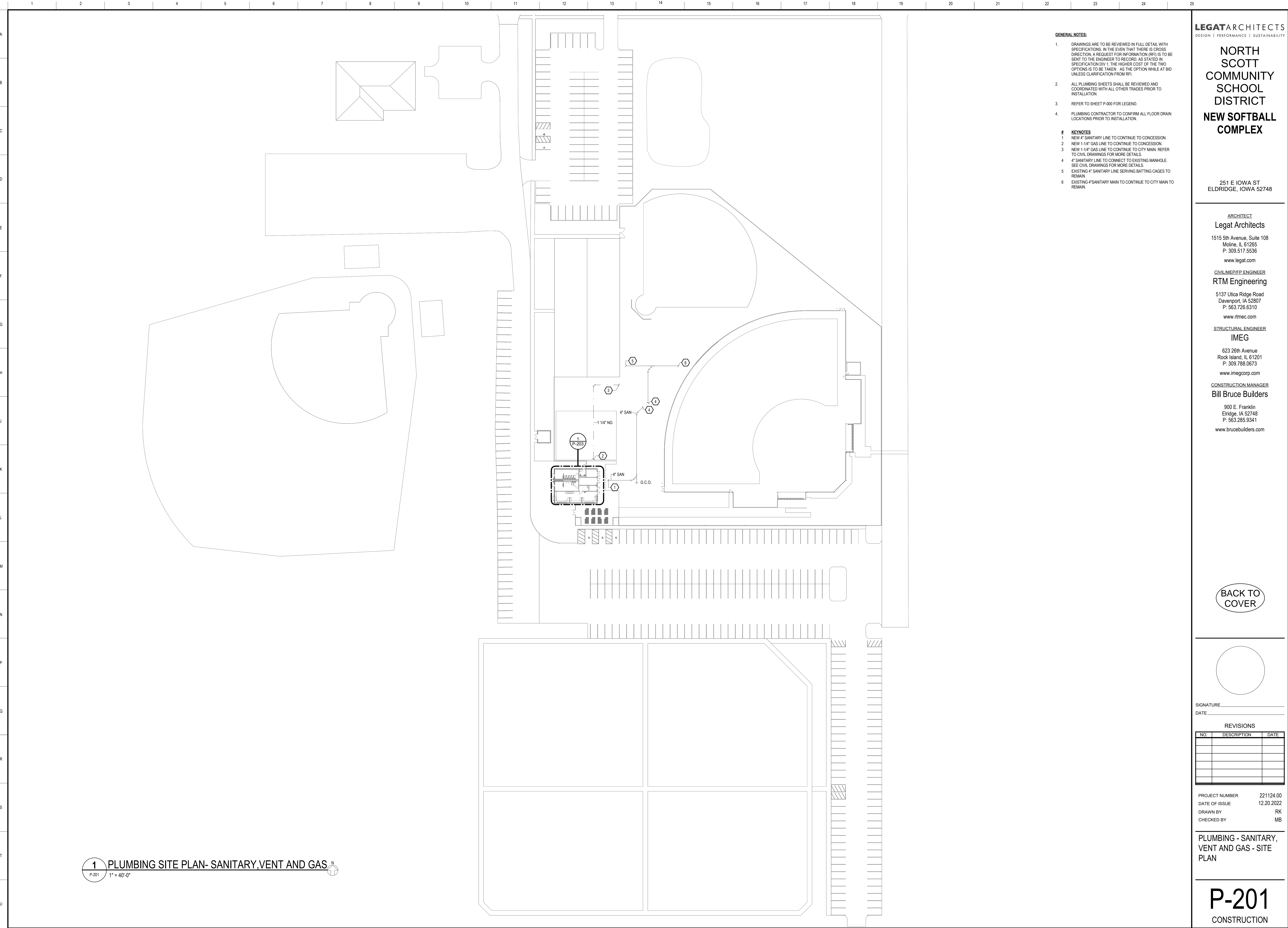
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**PLUMBING - DOMESTIC  
WATER FIRST FLOOR -  
CONCESSION**

**P-103**  
CONSTRUCTION





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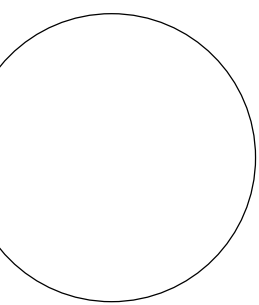
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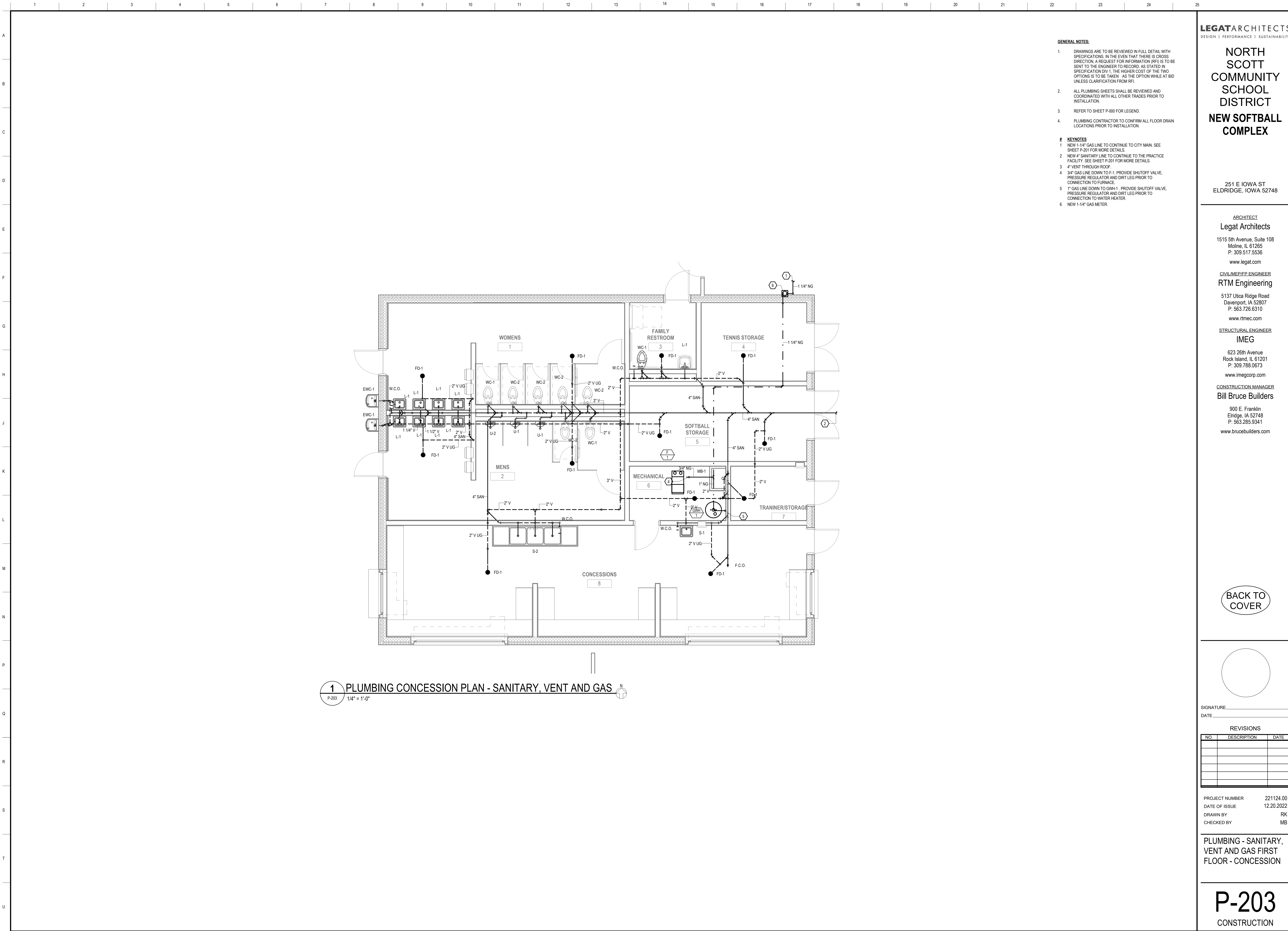
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PLUMBING - SANITARY,  
VENT AND GAS - SITE  
PLAN

**P-201**  
CONSTRUCTION





**1** PLUMBING CONCESSION PLAN - SANITARY, VENT AND GAS  
P-203 1/4" = 1'-0"

- GENERAL NOTES:**
- DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER TO RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
  - ALL PLUMBING SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
  - REFER TO SHEET P-000 FOR LEGEND.
  - PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAIN LOCATIONS PRIOR TO INSTALLATION.
- KEYNOTES**
- NEW 1-1/4" GAS LINE TO CONTINUE TO CITY MAIN. SEE SHEET P-201 FOR MORE DETAILS.
  - NEW 4" SANITARY LINE TO CONTINUE TO THE PRACTICE FACILITY. SEE SHEET P-201 FOR MORE DETAILS.
  - 4" VENT THROUGH ROOF.
  - 3/4" GAS LINE DOWN TO F-1. PROVIDE SHUTOFF VALVE, PRESSURE REGULATOR AND DIRT LEG PRIOR TO CONNECTION TO FURNACE.
  - 1" GAS LINE DOWN TO GWH-1. PROVIDE SHUTOFF VALVE, PRESSURE REGULATOR AND DIRT LEG PRIOR TO CONNECTION TO WATER HEATER.
  - NEW 1-1/4" GAS METER.

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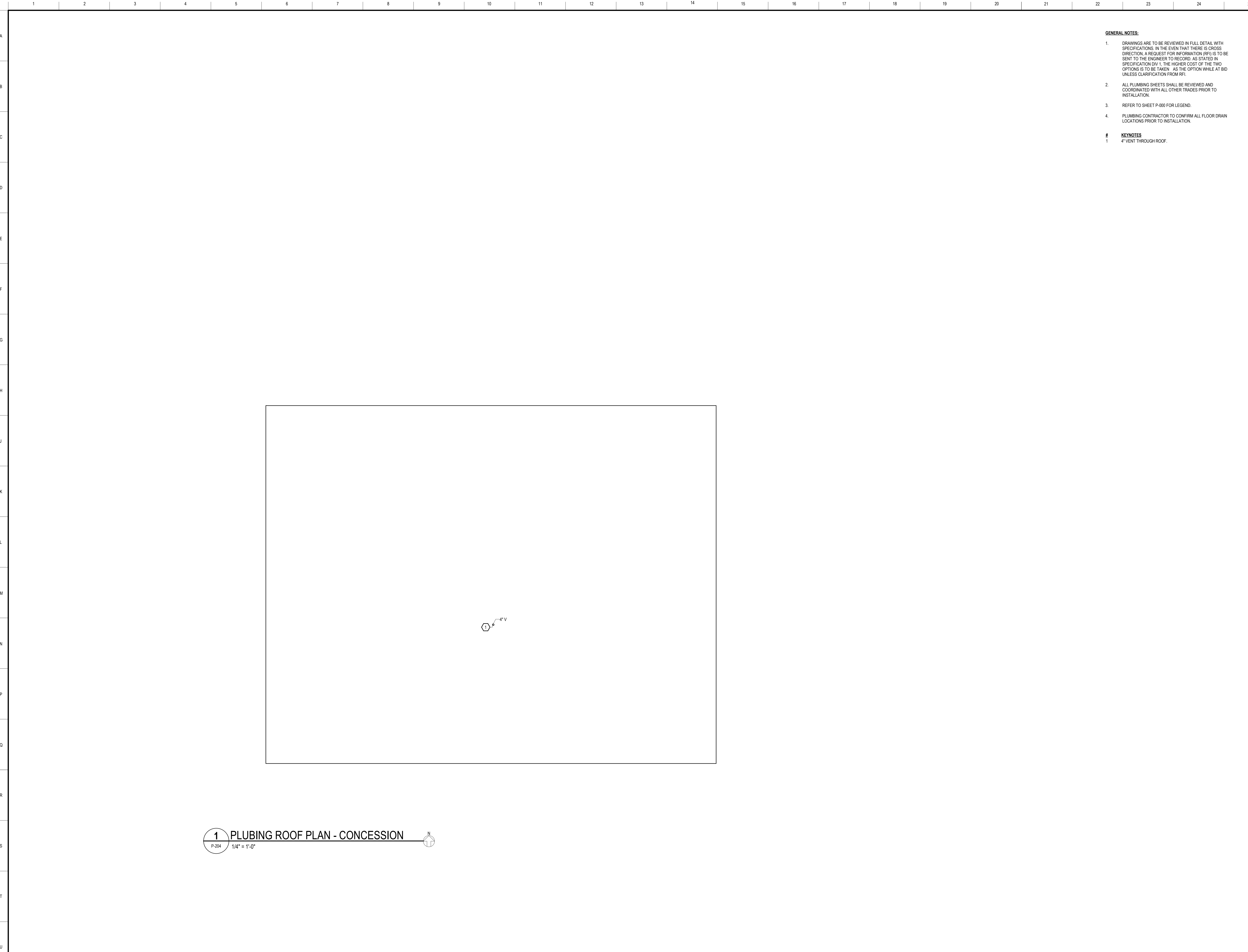
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PLUMBING - SANITARY,  
VENT AND GAS FIRST  
FLOOR - CONCESSION

**P-203**  
CONSTRUCTION





- GENERAL NOTES:**
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  - REFER TO SHEET P-000 FOR LEGEND.
  - PLUMBING CONTRACTOR TO CONFIRM ALL FLOOR DRAIN LOCATIONS PRIOR TO INSTALLATION.
- # KEYNOTES**
- 1 4\"/>

**1 PLUBING ROOF PLAN - CONCESSION**

P-204 1/4" = 1'-0"

N

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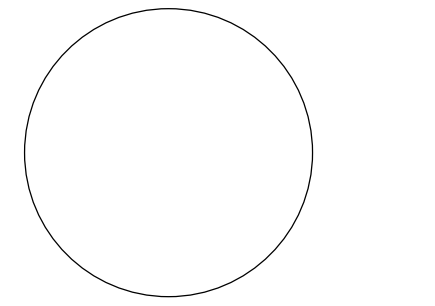
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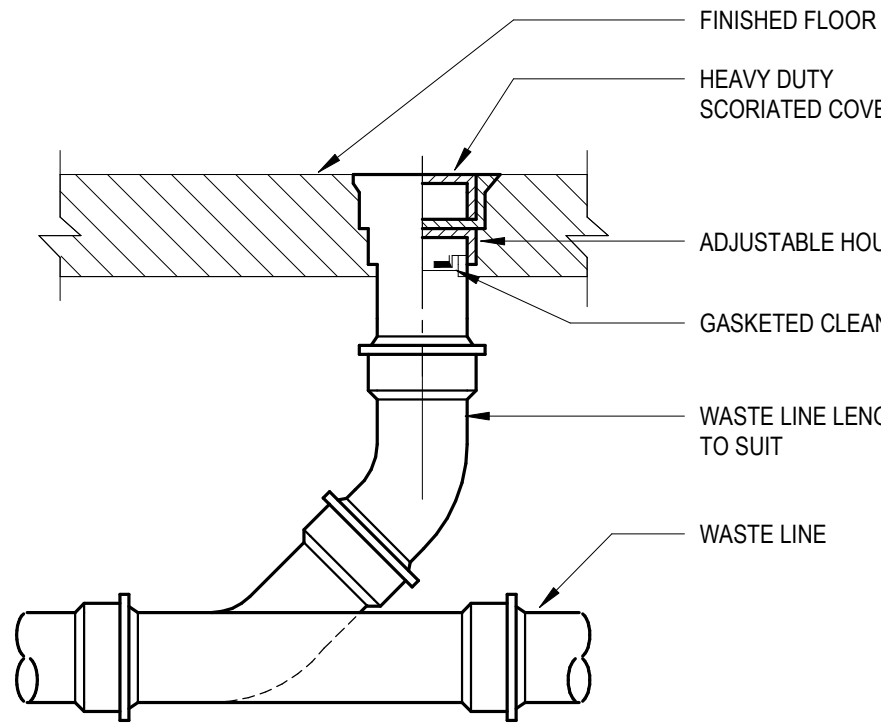
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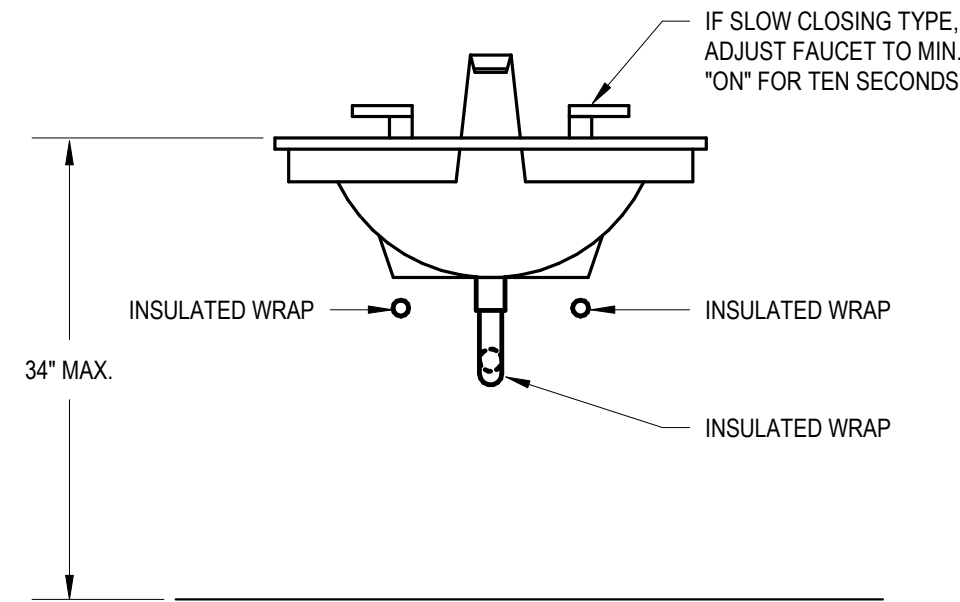
**PLUMBING ROOF PLAN-  
CONCESSION**

**P-204**  
CONSTRUCTION

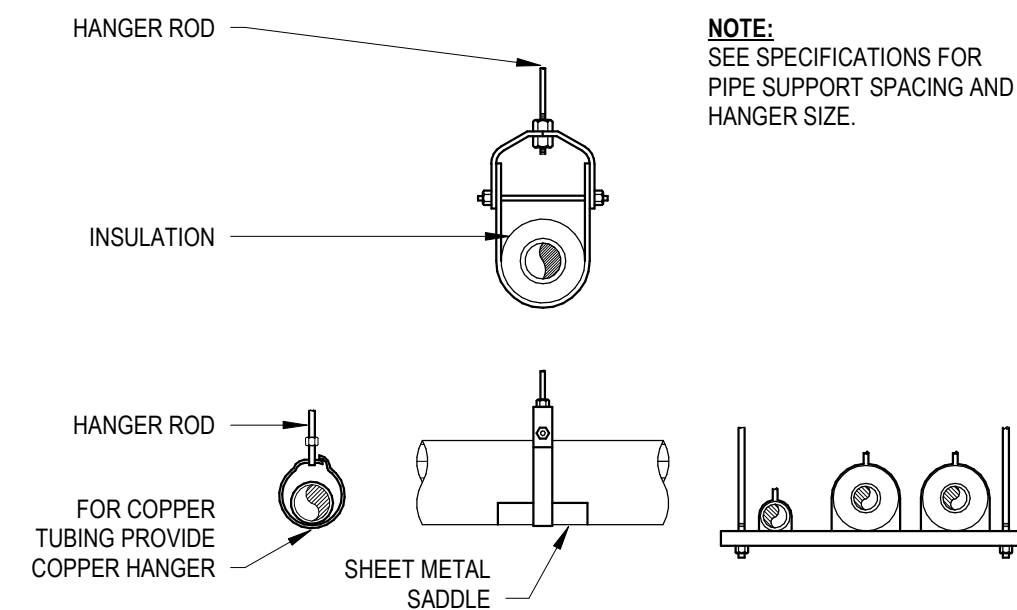




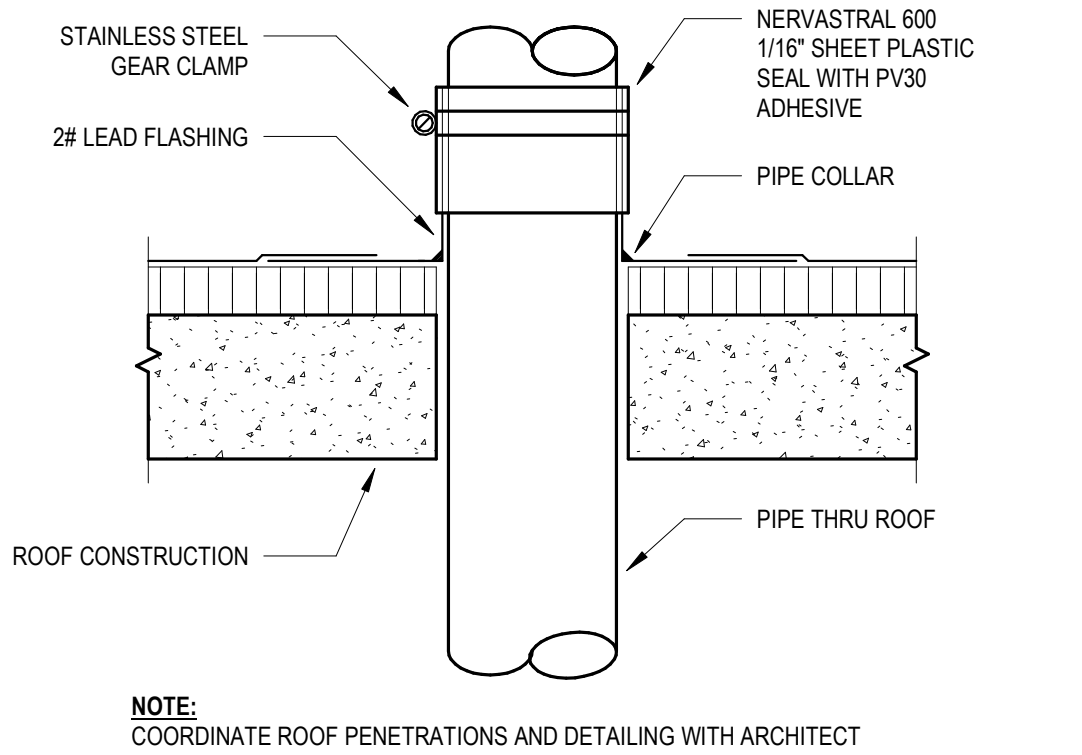
**1 FLOOR CLEANOUT DETAIL**  
P-300 SCALE: N.T.S.



**2 ADA COMPLYING LAVATORY INSTALLATION**  
P-300 SCALE: N.T.S.



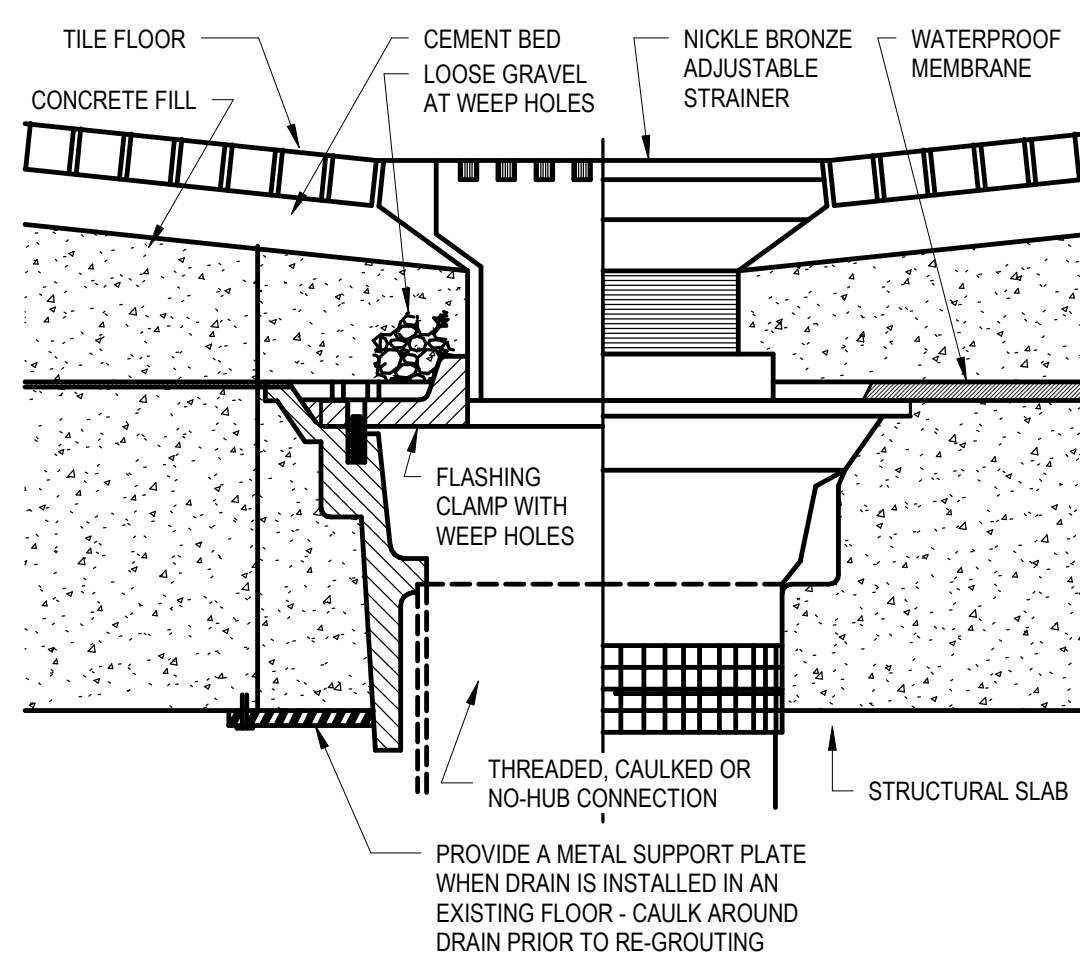
**3 PIPE SUPPORT**  
P-300 SCALE: N.T.S.



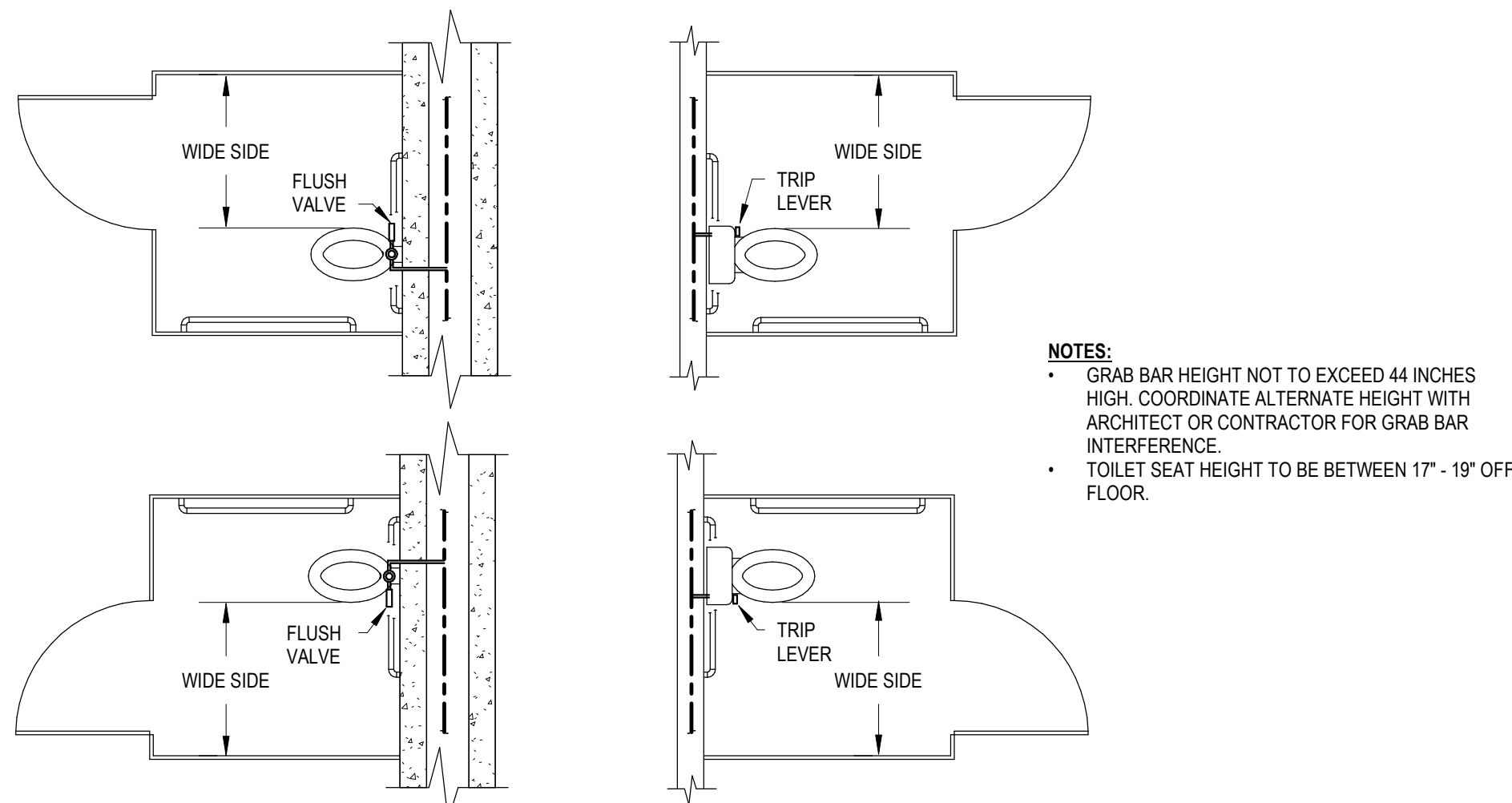
**4 VENT THRU ROOF DETAIL**  
P-300 SCALE: N.T.S.

GAS CONNECTED LOAD TABLE	
APPLIANCE	INPUT MBH
WATER HEATER *GWH 1*	120
FURNACE *F1*	100
BUILDING TOTAL	220 MBH AT 7.5\"/>

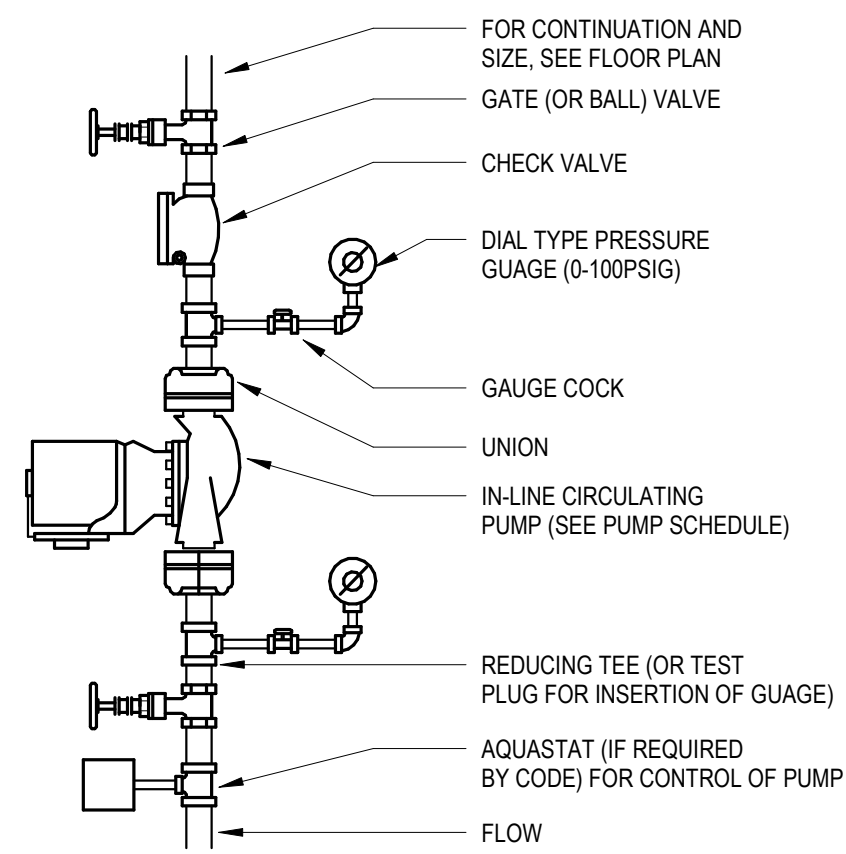
**5 GAS CONNECTED LOAD TABLE**  
P-300 SCALE: N.T.S.



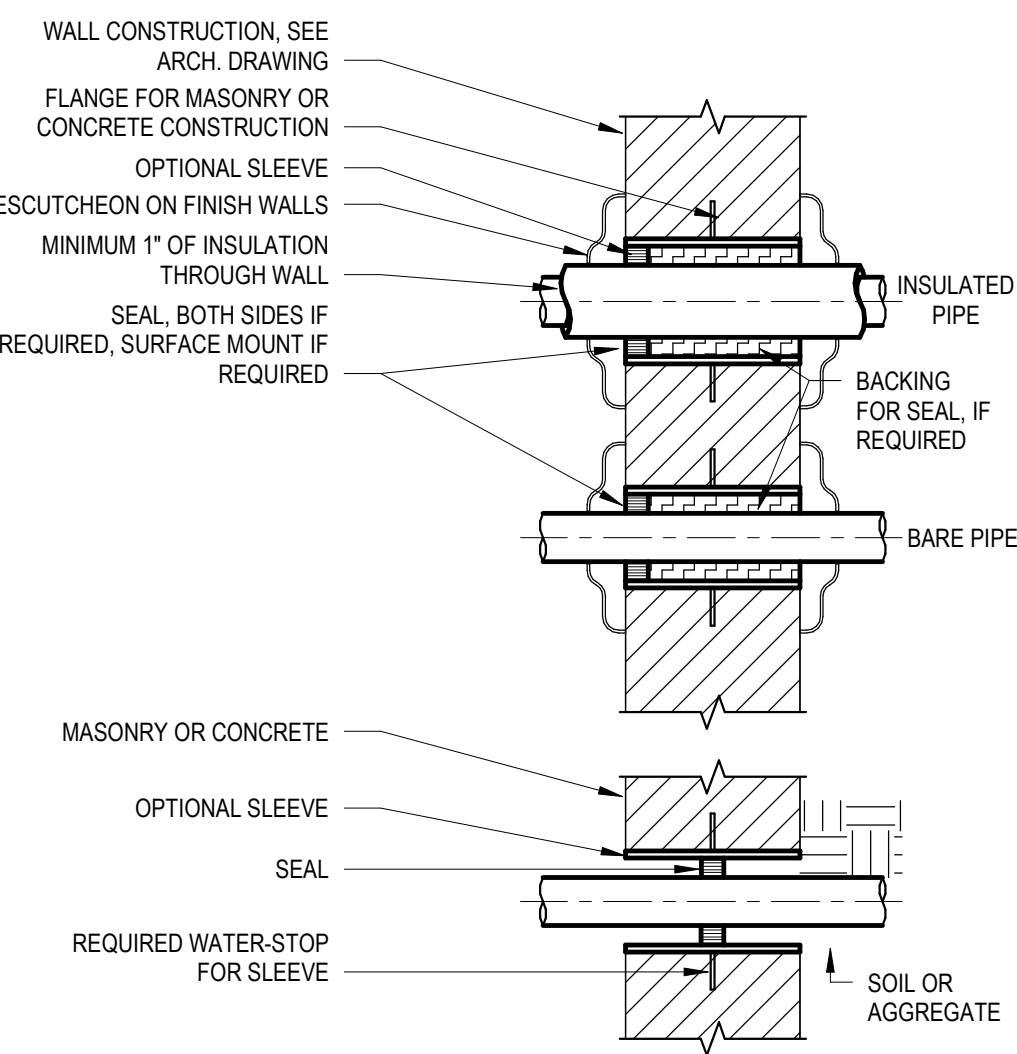
**6 TYPE C FLOOR DRAIN DETAIL**  
P-300 SCALE: N.T.S.



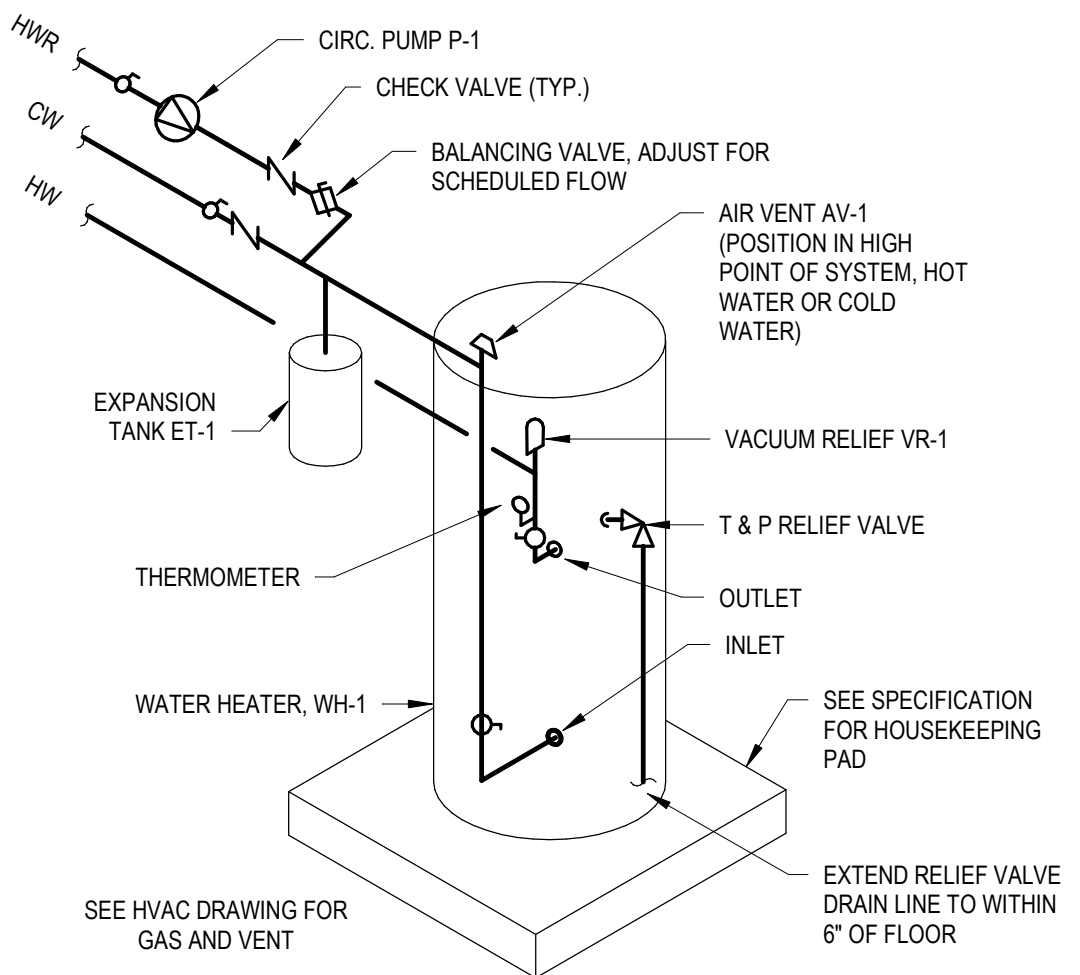
**7 ADA COMPLYING WATER - CLOSET INSTALLATION**  
P-300 SCALE: N.T.S.



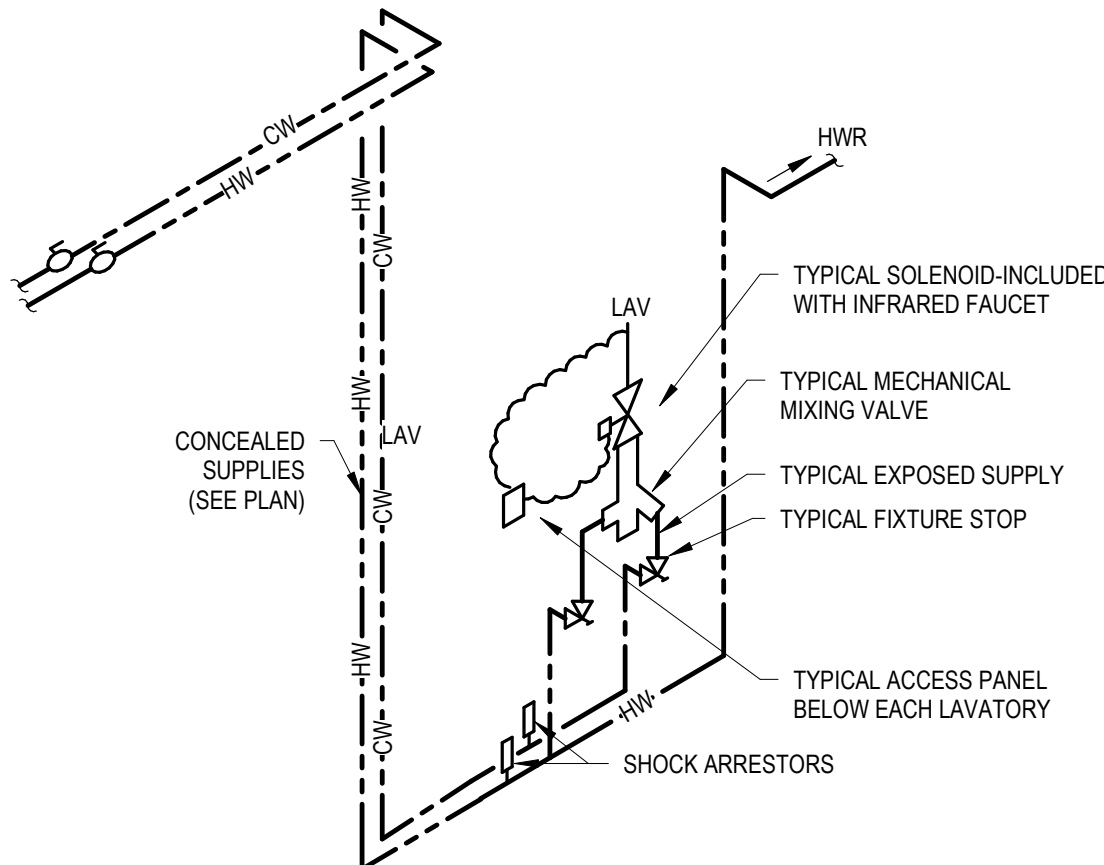
**8 CIRCULATING PUMP DETAIL**  
P-300 SCALE: N.T.S.



**9 WALL PENETRATIONS**  
P-300 SCALE: N.T.S.



**10 WATER HEATER - SINGLE**  
P-300 SCALE: N.T.S.



**11 LAVATORY TEMPERED WATER SUPPLY**  
P-300 NOT TO SCALE

TAG		DESCRIPTION	FIXTURE UNIT SCHEDULE										TOTAL WSFU	MANUFACTURER	MODEL NO.	REMARKS
			WASTE	VENT	CW	HW	DFU	TOTAL	FIXTURE	FIXTURE	FIXTURE	FIXTURE				
EW-1		OUTDOOR ELECTRIC DRINKING FOUNTAIN - SURFACE MOUNTED, SINGLE BASIN.	1 1/4"	1 1/4"	1/2"	0"	1	2	0.25	0	0.25	0.5	0	ELKAY	VR08WSK	OUTDOOR RATED SINGLE BOWL DRINKING FOUNTAIN WITH BOTTLE FILLING STATION.
FD-1		FLOOR DRAIN	4"	2"	0"	0"	6	72	0	0	0	0	0	SILOUX CHIEF	832	CAST IRON, ADJUSTABLE, CAULK RIM TO ADJACENT FLOOR MATERIAL.
HB-1		EXTERIOR HOSE BIBB, WITH VACUUM BREAKER, FREEZELESS, WALL MOUNT	0"	0"	3/4"	0"	0	0	4	0	0	0	0	WOODFORD	65	WALL HYDRANT FINISH TO BE CHROME. PROVIDE WITH VACUUM BREAKER.
L-1		LAVATORY - WALL MOUNT	1 1/4"	1 1/4"	1/2"	1/2"	1	9	1	1	1.5	13.5	0	ZURN	ZS344	ADA COMPLIANT, WALL MOUNT, MAX DEPTH OF 6-1/2". FAUCET TO BE ZURN Z891S-XL, AUTOMATIC, HARDWIRED, 5 GPF.
MB-1		MOP BASIN	3"	1 1/2"	1/2"	1/2"	3	3	2	2	3	3	0	FIAT	TSBC 1610	24\"/>
S-1		SINK - WALL MOUNT	1 1/2"	1 1/2"	1/2"	1/2"	2	2	1	1	1.5	1.5	0	ELKAY	ELV219SACC	WALL MOUNT, STAINLESS STEEL, MAX DEPTH OF 6-1/2". FAUCET TO BE TO BE INCLUDED, AUTOMATIC, HARDWIRED, 5 GPF.
S-2		TRIPLE BASIN SINK	3"	2"	3/4"	3/4"	4	4	2	2	3	3	0	ADVANCE TABCO	93-43-72-24RL	16 GAUGE STAINLESS STEEL TRIPLE BASIN SINK WITH FLOOR STANDS PROVIDE WITH 2 FAUCETS. FAUCETS TO BE TABCO K-1, 12" FAUCETS
U-1		URINAL - WALL MOUNT	2"	1 1/2"	3/4"	0"	2	4	4	0	4	8	0	ZURN	Z5755-U	VITREOUS CHINA FINISH TO BE WHITE. FLUSH VALVE TO BE ZURN ZEM5603PL-EVC-IS, AUTOMATIC, 5 GPF, HARD WIRED.
U-2		URINAL - WALL MOUNT, ADA	2"	1 1/2"	3/4"	0"	2	2	4	0	4	4	0	ZURN	Z5755-U	ADA, VITREOUS CHINA FINISH TO BE WHITE. FLUSH VALVE TO BE ZURN ZEM5603PL-EVC-IS, 5GPF, AUTOMATIC, HARDWIRED.
WC-1		WATER CLOSET - FLOOR MOUNT, TANK TYPE, ADA	3"	1 1/2"	1/2"	0"	6	18	3	0	3	9	0	ZURN	Z5655-BWL1	VITREOUS CHINA FLOOR MOUNT, PROVIDE FINISH TO BE WHITE, PROVIDE OPEN FRONT SEAT. FLUSH VALVE TO BE ZURN ZER600AV 1.28 GPF, AUTOMATIC, HARDWIRED.
WC-2		WATER CLOSET - FLOOR MOUNT, TANK TYPE	3"	1 1/2"	1/2"	0"	6	30	3	0	3	15	0	ZURN	Z566-BWL1	MOUNTED AT ADA HEIGHT, VITREOUS CHINA FLOOR MOUNT, PROVIDE OPEN FRONT SEAT. FINISH TO BE WHITE, FLUSH VALVE TO BE ZURN ZER600AV, AUTOMATIC, HARDWIRED.
YH-1		YARD HYDRANT	0"	0"	1"	0"	0	0	0.5	0	0.5	1	0	WOODFORD	Y34	FREEZEES YARD HYDRANT.

WATER HEATER SCHEDULE															
TAG	DESCRIPTION	LOCATION	STORAGE (GAL)	RECOVERY CAP (100 F RISE)	GAS INPUT (MBH)	ELECTRICAL DATA			FLUE CONNECTION DIA. (IN)	CA INTAKE DIA. (IN)	MANUFACTURER	MODEL NO.	TEMP. SET POINT (F)	WEIGHT (LBS)	REMARKS
						VOLTS	PHASE	HZ							
GWH-1	GAS WATER HEATER	MECH 6	60.0	138.0	120	120	1	60	5	3	AO SMITH	BTH-120	140	460	ALL

- REMARKS:
1. GAS CONNECTION 3/4", WATER CONNECTION 1", AIR INLET CONNECTION 3", VENT CONNECTION 3".
  2. UNIT IS TO USE NATURAL GAS CONNECTION AND USE DOWN FIRED POWER BURNER DESIGNED FOR PRECISE MIXING OF AIR AND GAS FOR OPTIMUM EFFICIENCY, REQUIRING NO SPECIAL CALIBRATION ON START UP.
  3. WATER HEATER SHALL HAVE A FOAM INSULATION AND A CSA CERTIFIED AND ASME RATED T&P RELIEF VALVE.
  4. UNIT SHALL USE A CONCENTRIC KIT WITH PART NO. 9003910105 PRIOR TO PENETRATING ROOF. 4" PVC PIPES SHALL BE USED FOR POWER DIRECT - VENTING UP THROUGH ROOF. EQUIVALENT DISTANCE OF VENT PIPES SHALL NOT EXCEED 120 FEET. PROVIDE MESH WIRE SCREEN FOR VERMIN CONTROL.
  5. PROVIDE 4" LEE KIT TO MEET NSF REQUIREMENTS. STANDARD CONTROLS TO INCLUDE ADJUSTABLE T-STAT, ELECTRONIC IGNITION, EMERGENCY GAS CUT-OFF AND PRESSURE REGULATOR.
  6. UNITS TO HAVE DROP PAN THAT IS TO BE DRAINED TO THE NEAREST FLOOR DRAIN.

RECIRCULATION PUMP SCHEDULE													
TAG	LOCATION	TYPE	CAPACITY (GPM)	PUMP HEAD (FT)	ELECTRICAL DATA					WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS
					RPM	HP	V	PH	HZ				
RCP-1	MECHANICAL ROOM 6	INLINE	10	25	1750	0.17	120	1	60	17	BELL & GOSSET	PCL-45	ALL

- REMARKS:
1. LABEL ALL PUMPS.
  2. IN-LINE PUMPS ARE TO BE SUPPORTED BY PIPING, AND/OR HUNG UNINSTRUCTED WITH VIBRATION ISOLATION HANGING RODS.
  3. CONTRACTOR SHALL VERIFY FINAL HEAD PRESSURE AND PUMP SELECTION WITH ACTUAL FIELD CONDITION.
  4. PUMP TO BE PROVIDED WITH TIME CLOCK TO OPERATE ONLY DURING OCCUPIED HOURS. PUMP SHOULD BE POWERED OFF WHEN BUILDING IS TO BE DRAINED DOWN FOR WINTER MONTHS.

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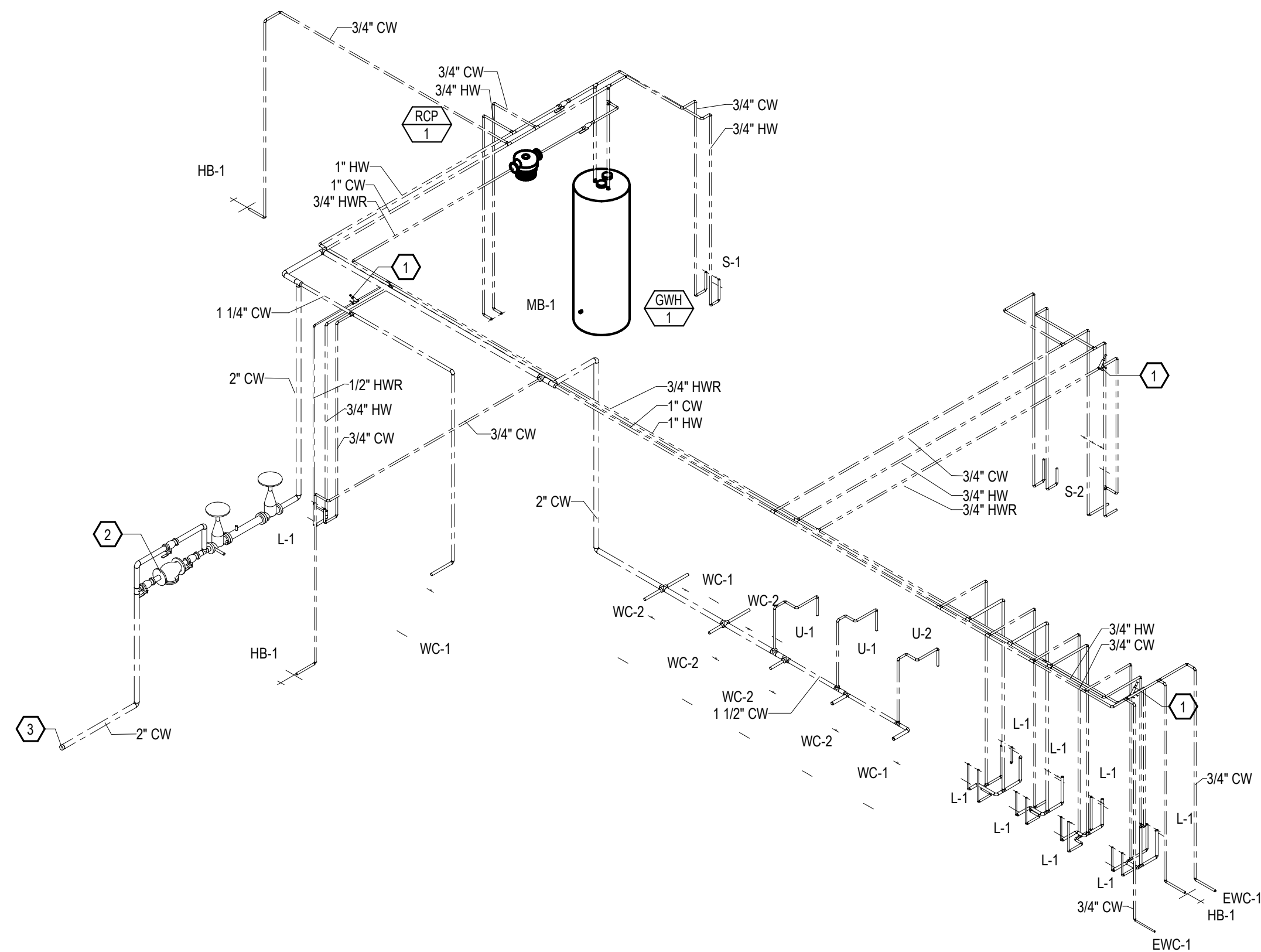
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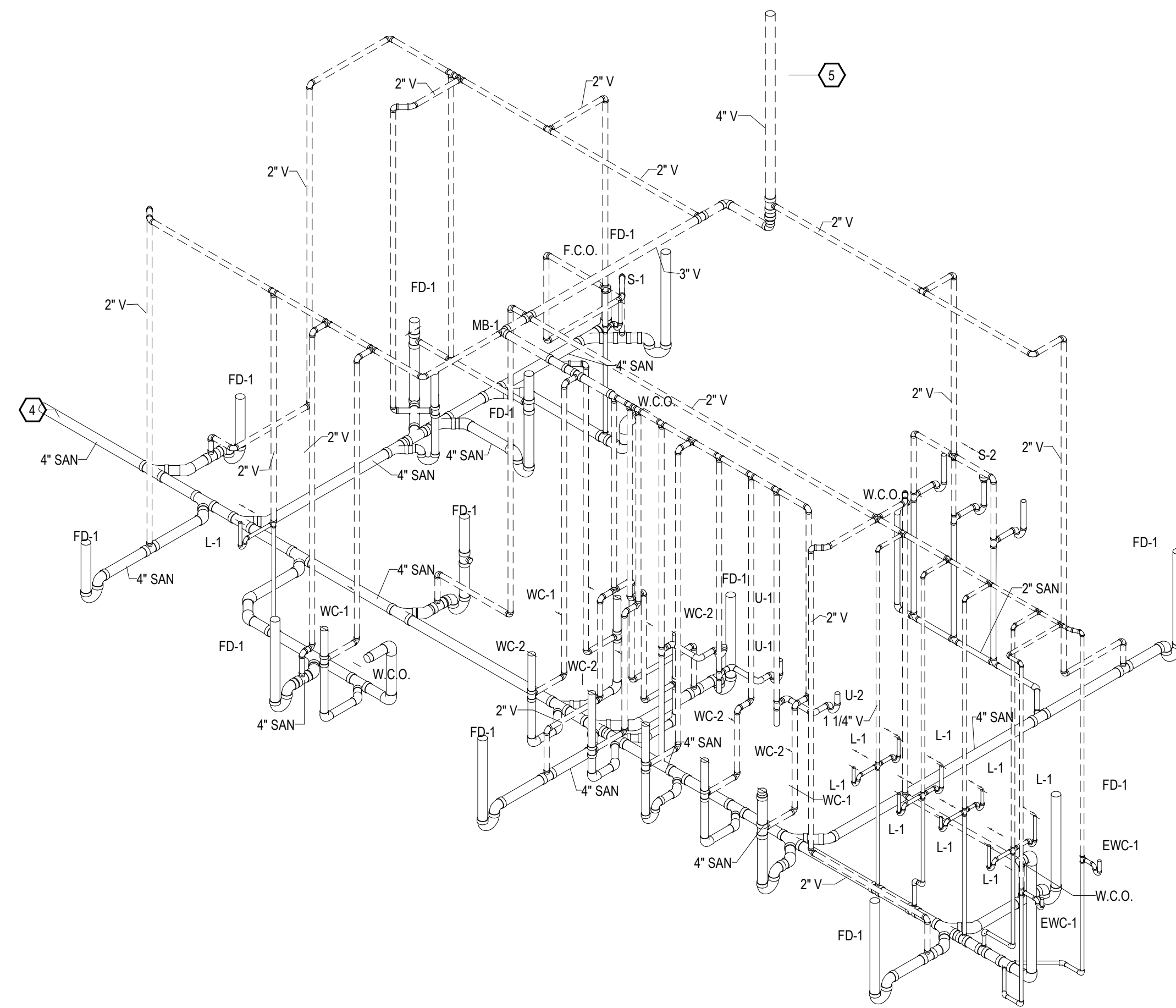
**PLUMBING SCHEDULES AND DETAILS**

**P-300**  
CONSTRUCTION





**1 DOMESTIC WATER RISER**  
P-400 SCALE: N.T.S.



**2 SANITARY AND VENT RISER**  
P-400 SCALE: N.T.S.

- # KEYNOTES
1. BALANCING VALVE TO BE INSTALLED ON HOT WATER RETURN LINE BEFORE CONNECTION TO HOT WATER LINE.
  2. WATER METER ASSEMBLY. PROVIDE HOSE BIB AND SHUT OFF VALVE TO DRAIN LINES IN WINTER MONTHS. IN ORDER TO DRAIN DOWN SYSTEM, STEP 1: SHUT OFF WATER AT THE METER. THERE ARE 2 ISOLATION VALVES ON BOTH SIDES OF METER. TURN VALVES TO "OFF" POSITION.
  3. NEW 2" CW LINE TO CONTINUE TO THE EXISTING PRACTICE FACILITY WATER MAIN. SEE SHEET P-101 FOR MORE DETAILS. COORDINATE WITH CIVIL DRAWINGS FOR SITE CONNECTION.
  4. NEW 4" SANITARY LINE TO CONTINUE TO THE PRACTICE FACILITY. SEE SHEET P-201 FOR MORE DETAILS.
  5. 4" VENT THROUGH ROOF.

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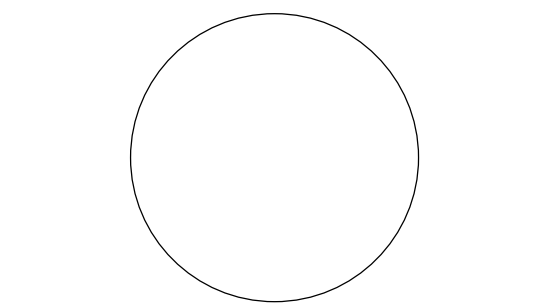
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PLUMBING RISER  
DIAGRAMS

**P-400**  
CONSTRUCTION



	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
A																							
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C																							
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### DUCT SYSTEMS:

### MECHANICAL EQUIPMENT:

PLAN SYMBOL

### MECHANICAL TAGS:

VISIBLE DIMENSION  
DUCT DIMENSIONS (CLEAR, INTERNAL)  
SYSTEM ABBREVIATION

TYPE:  
S - SUPPLY  
R - RETURN  
E - EXHAUST  
T - TRANSFER

SIZE (OPTIONAL)  
X# (# x #)

AIR FLOW RATE  
MARK  
NUMBER

PIPE SIZE  
#\" x\" XX

SYSTEM ABBREVIATION

POINT OF NEW CONNECTION  
POINT OF DISCONNECTION

### GENERAL:

DRAWING KEYNOTE SYMBOL

DETAIL NUMBER  
BUILDING SECTION  
SHEET NUMBER  
DETAIL NUMBER  
BUILDING ELEVATION  
SHEET NUMBER  
DETAIL NUMBER  
CALLOUT BOUNDARY  
SHEET NUMBER  
DETAIL NUMBER  
VIEW REFERENCE CALLOUT  
SHEET NUMBER

+\" X\"  
MOUNTING HEIGHT DESIGNATION

### INSULATION SCHEDULE:

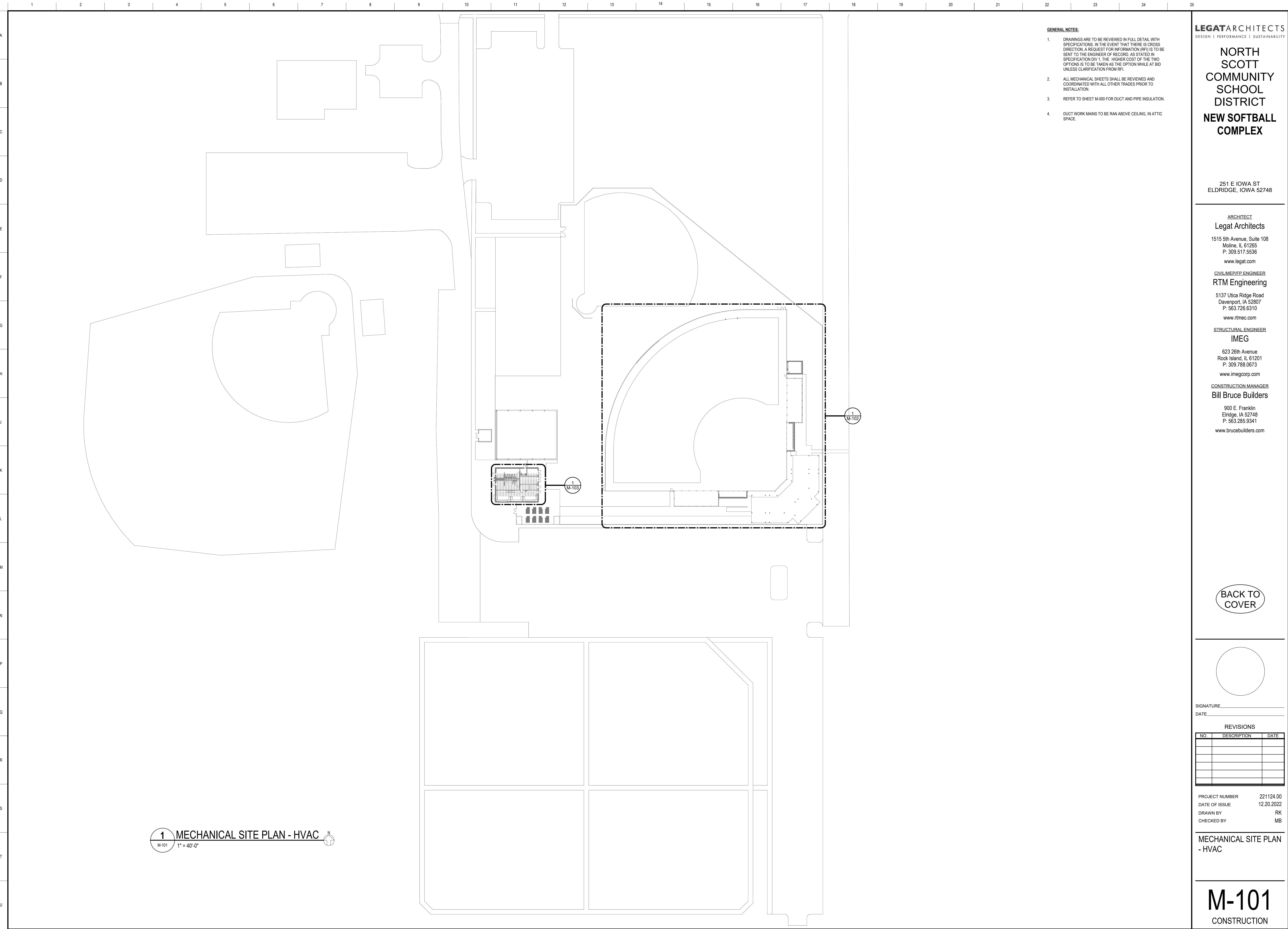
DESCRIPTION	MIN.	MAX.
ALL EXPOSED DUCTWORK IN CONDITIONED SPACES OR SPIRAL DUCT	R-12	
ALL CONCEALED SUPPLY AND RETURN DUCT	R-6	
ALL EXHAUST UP TO 10'-0\" FROM DISCHARGE	R-6	
ALL HEATING AND COOLING HYDRONIC PIPING	R-2"	
CONDENSATE PIPING	R-1"	

NOTE:  
ALL SUPPLY AND RETURN AIR DUCTS AND PLENUMS SHALL BE INSULATED WITH A MINIMUM OF R-6 INSULATION WHEN LOCATED IN UNCONDITIONED SPACES AND WITH A MINIMUM OF R-12 INSULATION WHEN LOCATED OUTSIDE THE BUILDING ENVELOPE. WHEN LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR UNCONDITIONED OR EXEMPT SPACES BY A MINIMUM OF R-12 INSULATION. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK SHALL BE SECURELY FASTENED AND SEALED WITH WELDS, GASKETS, MASTICS, MASTIC FLUESEMEDDED FABRICSYSTEMADSOR TAPES. TAPES AND MASTICS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A OR UL 181B. DUCT CONNECTIONS TO FLANGES OF AIR DISTRIBUTION SYSTEM EQUIPMENT SHALL BE SEALED AND MECHANICALLY FASTENED. DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS.

### MECHANICAL ABBREVIATIONS:

AC	AIR CONDITIONER
ACH	AIR CHANGES PER HOUR
AF	AIR FILTER
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
BAS	BUILDING AUTOMATION SYSTEM
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
CC	COOLING COIL
CF	CUBIC FEET
CPH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CO	CLEANOUT
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONSTANT AIR VOLUME
DAT	DISCHARGE AIR TEMPERATURE
DB	DECIBEL OR DRY BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DH	DUCT HEATER
DX	DIRECT EXPANSION
EAT	ENTERING AIR TEMPERATURE
EER	ENERGY EFFICIENCY RATIO</





GENERAL NOTES:

- DRAWINGS ARE TO BE REVIEWED IN FULL DETAIL WITH SPECIFICATIONS. IN THE EVENT THAT THERE IS CROSS DIRECTION, A REQUEST FOR INFORMATION (RFI) IS TO BE SENT TO THE ENGINEER OF RECORD. AS STATED IN SPECIFICATION DIV 1, THE HIGHER COST OF THE TWO OPTIONS IS TO BE TAKEN AS THE OPTION WHILE AT BID UNLESS CLARIFICATION FROM RFI.
- ALL MECHANICAL SHEETS SHALL BE REVIEWED AND COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
- REFER TO SHEET M-000 FOR DUCT AND PIPE INSULATION.
- DUCT WORK MAINS TO BE RAN ABOVE CEILING, IN ATTIC SPACE.

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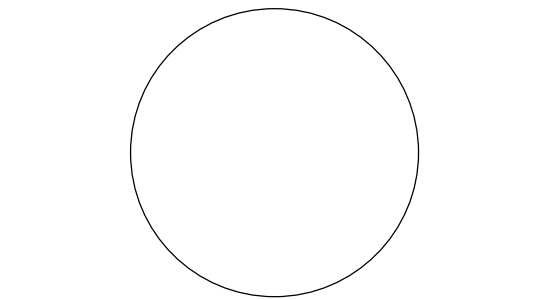
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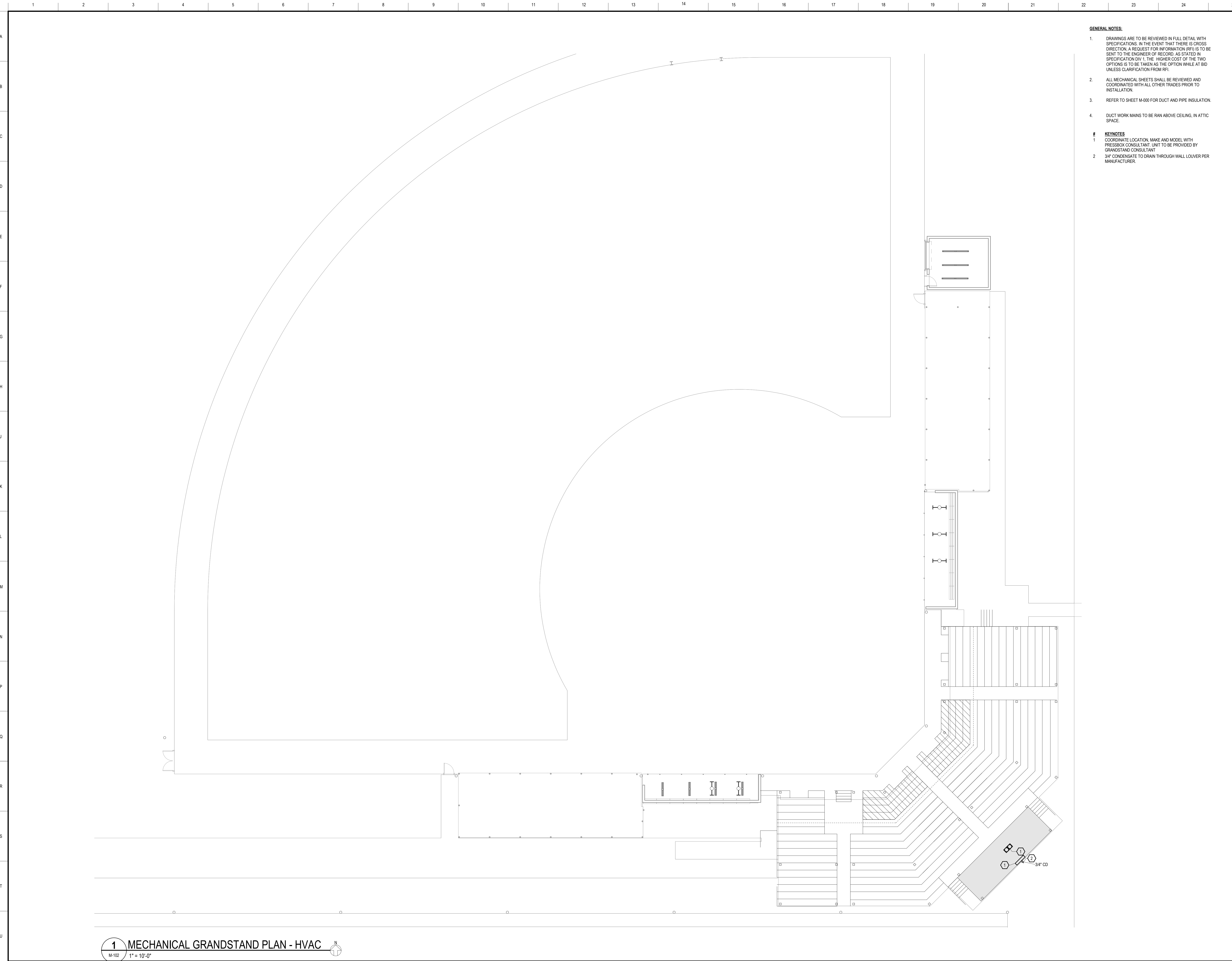
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MECHANICAL SITE PLAN  
- HVAC

M-101  
CONSTRUCTION





- GENERAL NOTES:**
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  - DUCT WORK MAINS TO BE RAN ABOVE CEILING, IN ATTIC SPACE.
- # KEYNOTES**
- COORDINATE LOCATION, MAKE AND MODEL WITH PRESSBOX CONSULTANT. UNIT TO BE PROVIDED BY GRANDSTAND CONSULTANT.
  - 3/4" CONDENSATE TO DRAIN THROUGH WALL LOUVER PER MANUFACTURER.

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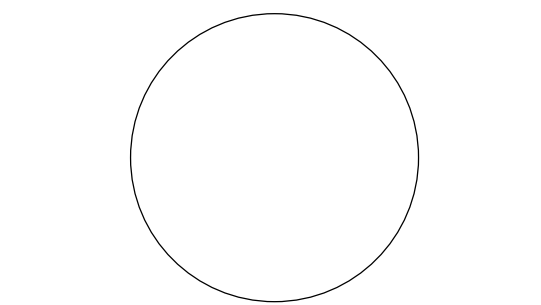
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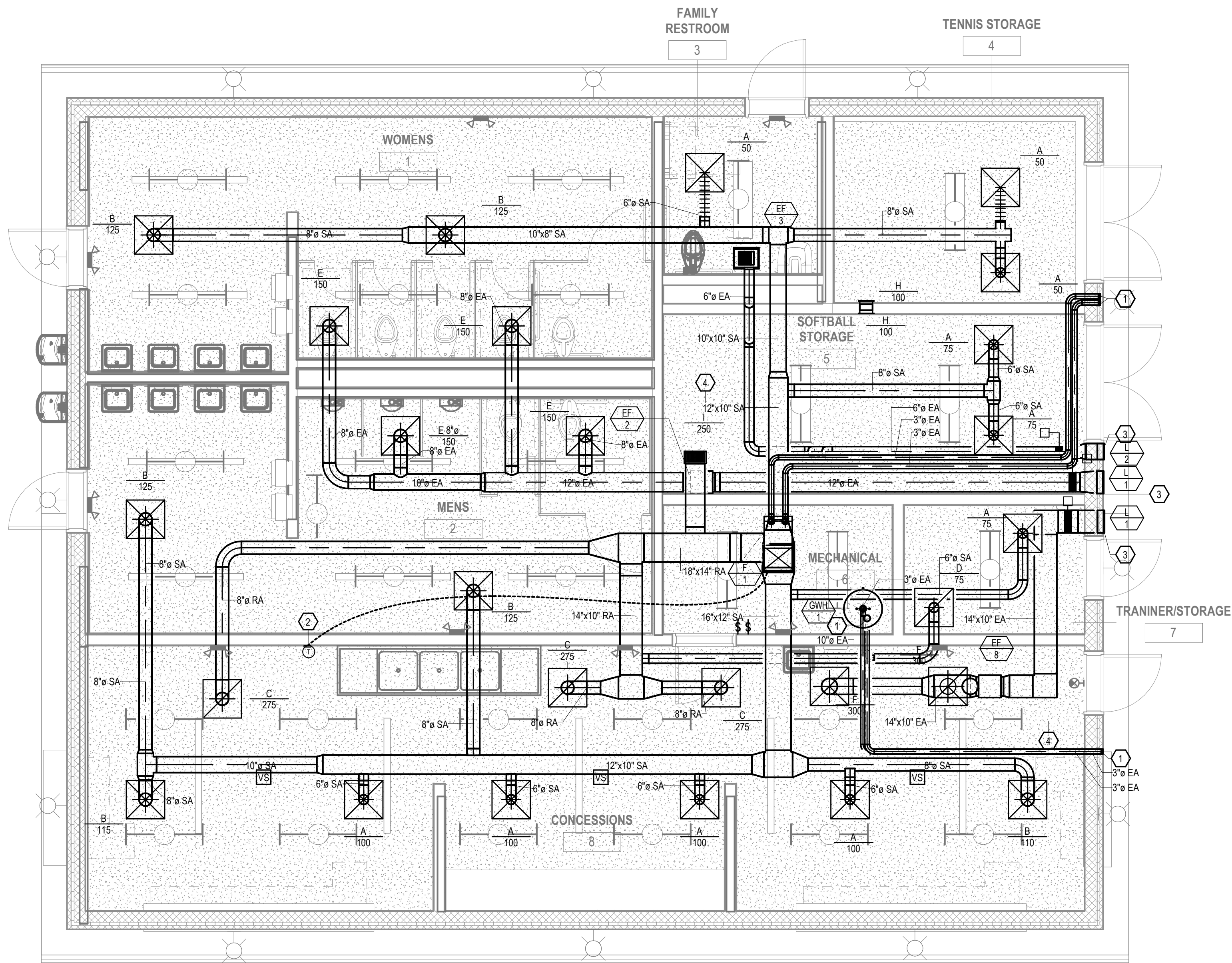
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**MECHANICAL  
GRANDSTAND PLAN -  
HVAC**

**M-102**  
CONSTRUCTION





1 MECHANICAL CONCESSION PLAN - HVAC  
M-103 1/4" = 1'-0"

GENERAL NOTES:

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- DUCT WORK MAINS TO BE RAN ABOVE CEILING, IN ATTIC SPACE.

KEYNOTES

- 3" EXHAUST AND INTAKE FLUES TO TERMINATE AT SIDE WALL. TERMINATE WITH CONCENTRIC KIT. EXHAUST DISCHARGE TO BE A MINIMUM OF 10'-0" FROM ANY FRESH INTAKES.
- NEW DDC THERMOSTATIC SENSOR AND CONTROL WIRING TO CONTROL F-1.
- NEW STATIONARY LOUVER TO BE PROVIDED WITH BACKDRAFT DAMPER AND BIRDSCREEN PRIOR TO CONNECTION TO LOUVER.
- PROVIDE 24"x24" ACCESS PANEL. COORDINATE EXACT LOCATION WITH ARCHITECT.

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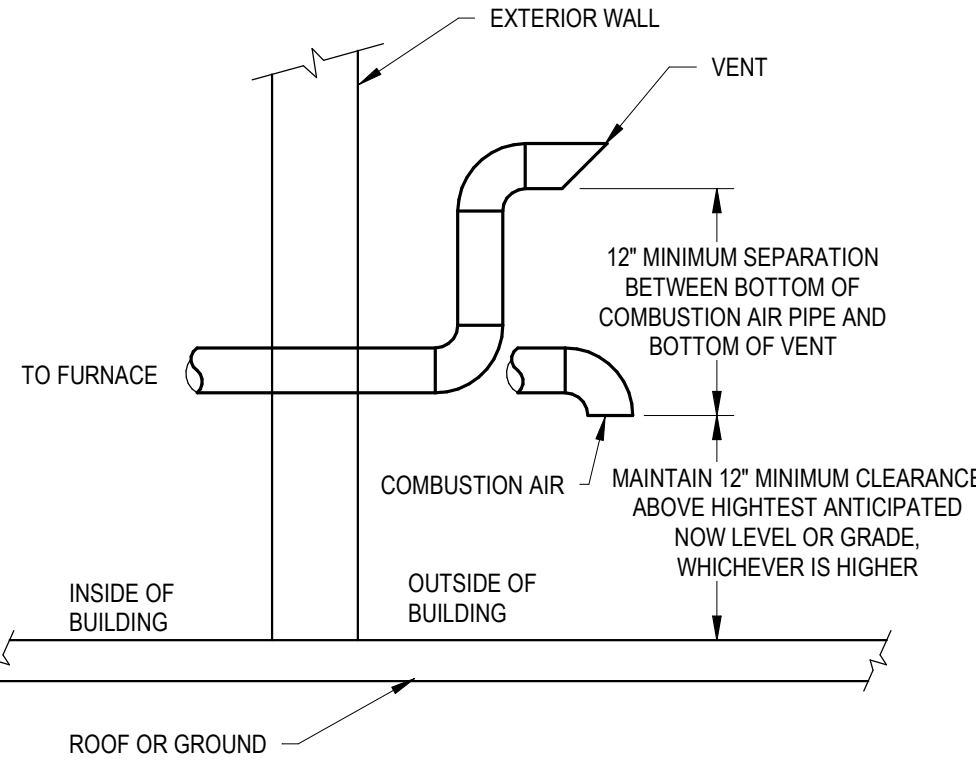
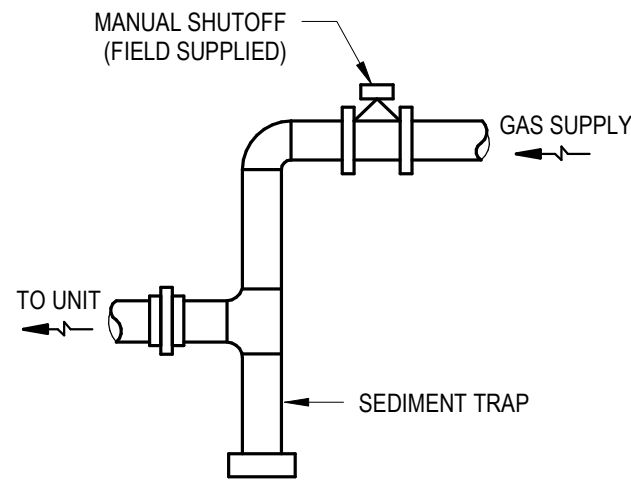
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MECHANICAL  
CONCESSION - HVAC

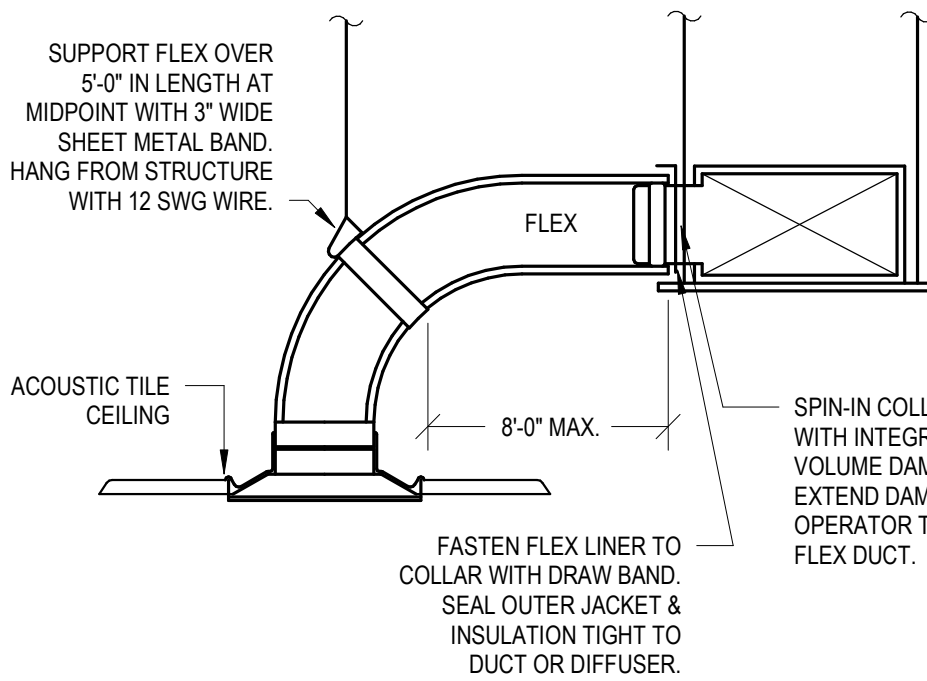
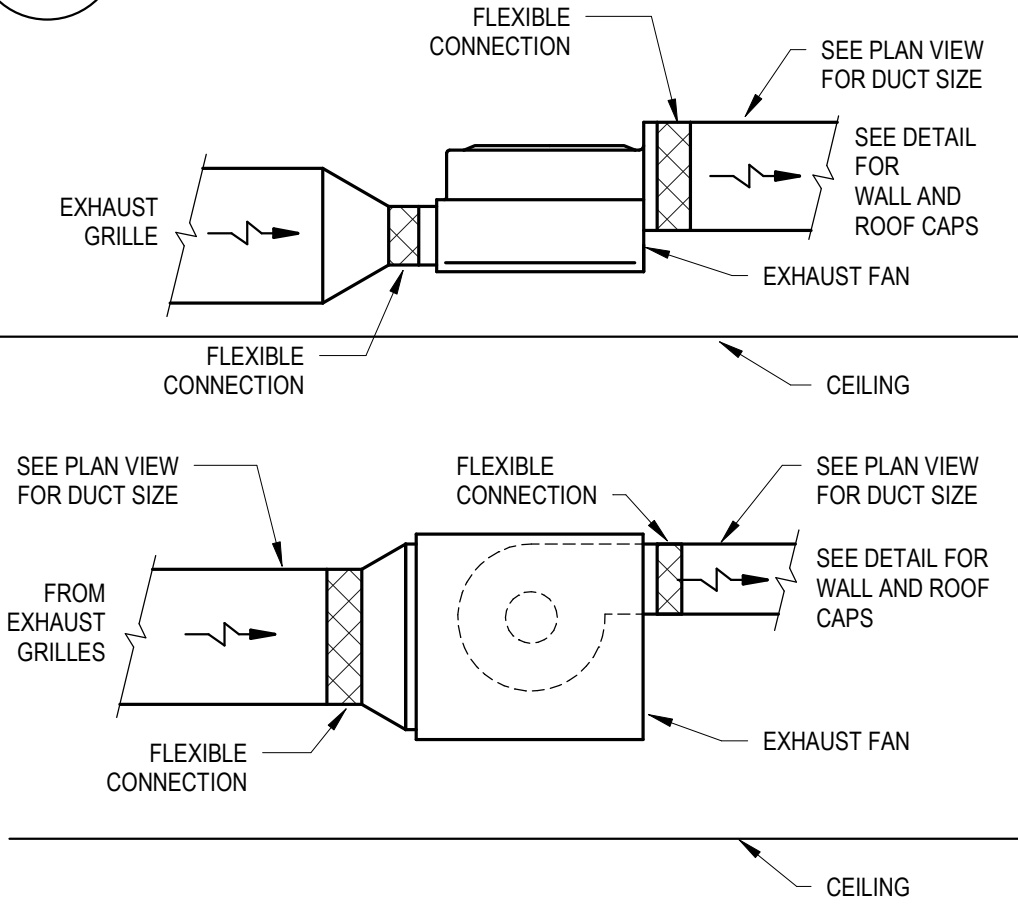
M-103  
CONSTRUCTION





1 GAS CONNECTOR DETAIL  
SCALE: N.T.S.

M-200

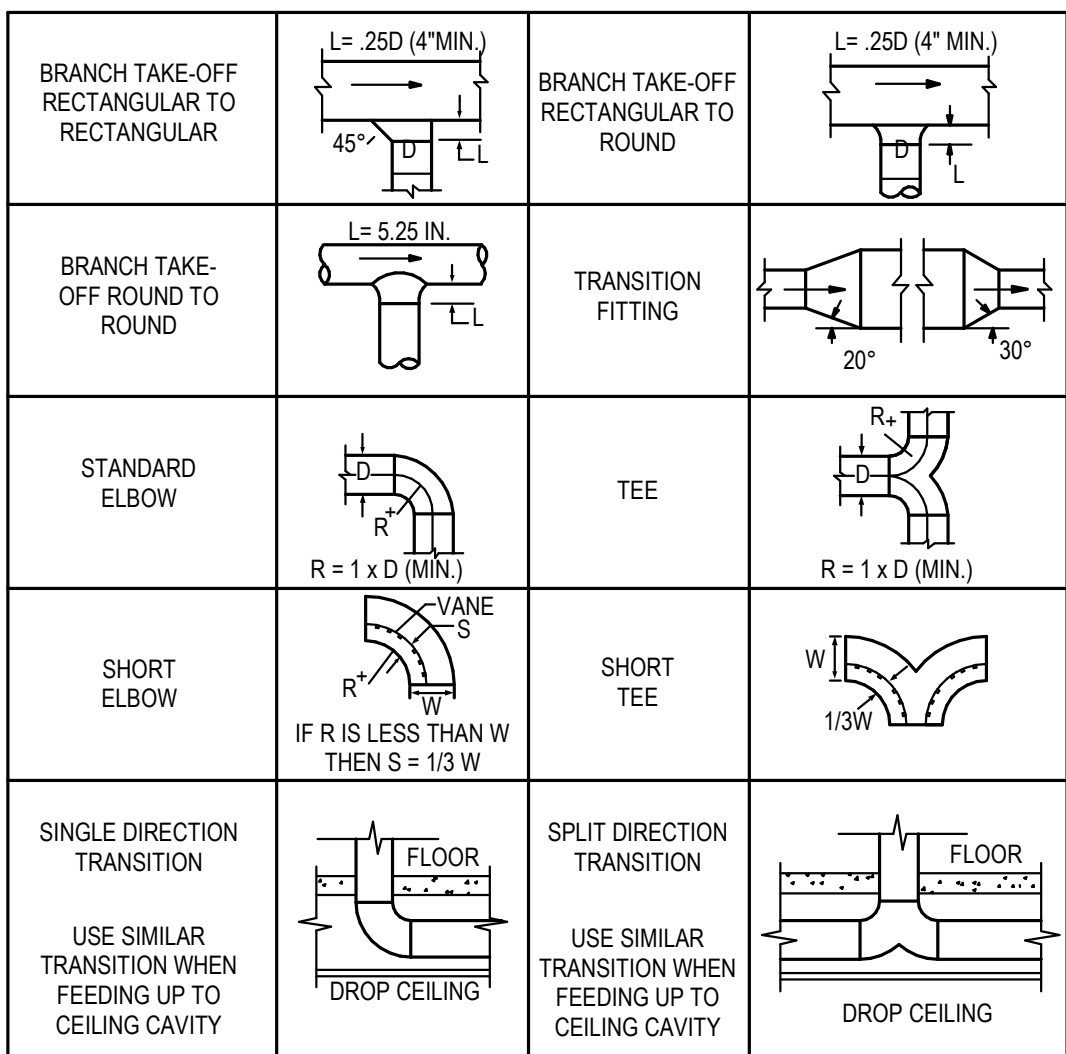


2 COMBUSTION AIR INTAKE AND VENT  
FOR F-1 OUT THRU SIDE WALL DETAIL  
SCALE: N.T.S.

M-200

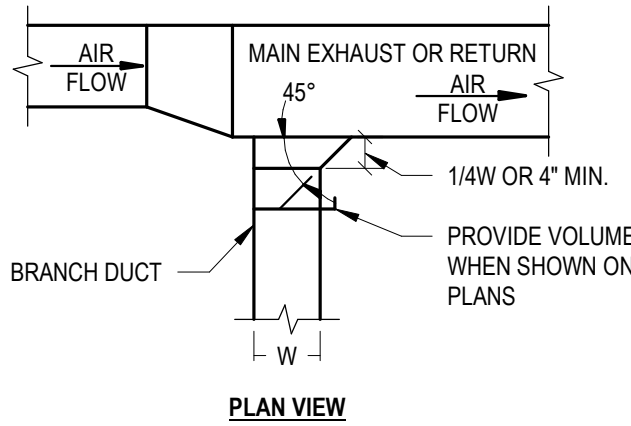
3 INLINE EXHAUSTER DETAIL  
SCALE: N.T.S.

M-200



5 TYPICAL DUCT TAKE-OFFS DETAIL  
SCALE: N.T.S.

M-200

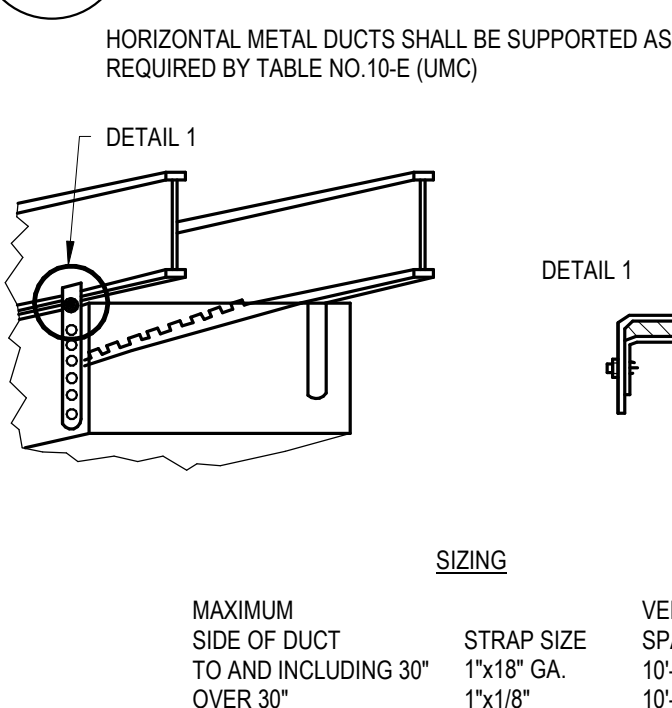


8 EXHAUST OR RETURN BRANCH  
DUCTWORK DETAIL  
SCALE: N.T.S.

M-200

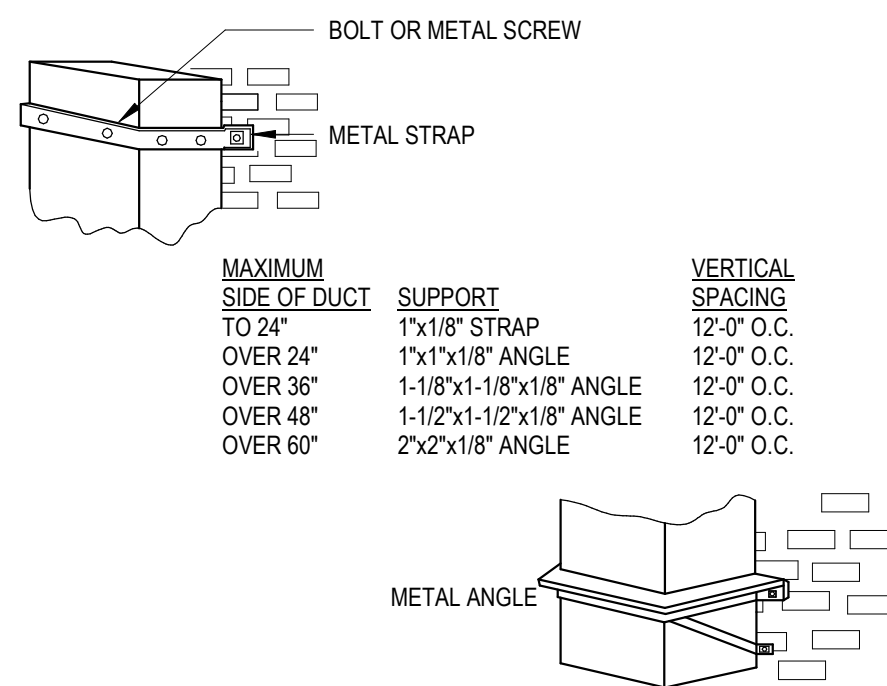
6 FURNACE ELEVATION DETAIL  
SCALE: N.T.S.

M-200



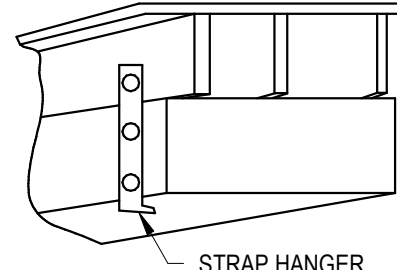
9 DUCT SUPPORT DETAIL - 3  
SCALE: N.T.S.

M-200



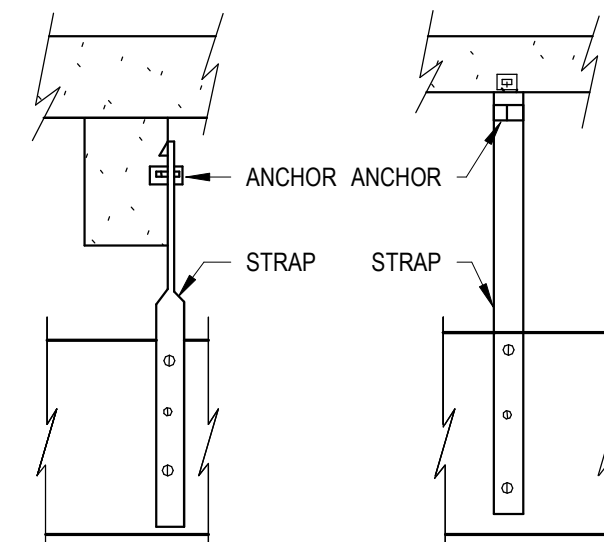
7 DUCT SUPPORT DETAIL - 1  
SCALE: N.T.S.

M-200



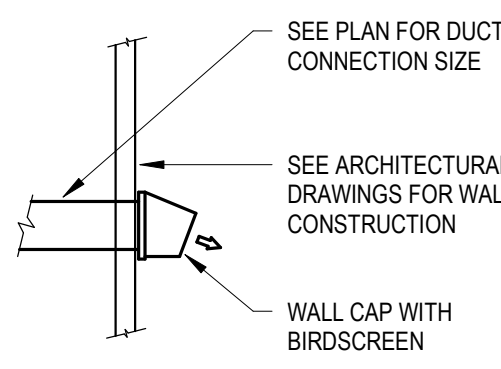
10 DUCT SUPPORT DETAIL - 4  
SCALE: N.T.S.

M-200



11 DUCT SUPPORT DETAIL - 2  
SCALE: N.T.S.

M-200



12 WALL, EAVE AND ROOF CAPS  
W/ BUILT-IN BACKDRAFT DAMPER  
SCALE: N.T.S.

M-200

FORCED AIR FURNACE SCHEDULE																					
TAG	LOCATION	TYPE	FLUE SIZE (IN.)	CA INTAKE SIZE (IN.)	INPUT (MBH)	HEATING CAPACITY			FAN DATA				ELECTRICAL DATA				WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS	
						OUTPUT (MBH)	MAT (DBT)	AFUE (%)	SA AIRFLOW	OA AIRFLOW	ESP (IN. W.C.)	HP	MCA	MCCP	V	PH					HZ
F 1	MECH 6	GAS FURNACE	3	3	100	96	65	97	1600	0	0.50	0.75	11	15	120	1	60	154	TRANE	S9V2C1004VSA8	ALL

- REMARKS:
- UNITS TO HAVE PROGRAMMABLE THERMOSTAT TO BE PROVIDED BY MANUFACTURER AND INSTALLED BY CONTRACTOR.
  - CONTRACTOR TO PROVIDE DRAIN PAN AT BASE FOR UNITS. DRAINAGE TO ROUTED TO NEAREST FLOOR DRAIN.
  - UNIT INSTALLATION TO MEET MANUFACTURER'S CLEARANCE REQUIREMENTS.
  - UPON TURN-OVER, FURNACE TO BE PROVIDED WITH MERV 8 FURNACE FILTERS.
  - PROVIDE WITH ECM MOTORS.
  - ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT SWITCH.

EXHAUST FAN SCHEDULE													
TAG	TYPE	SERVICE	CFM	E.S.P. (IN. W.C.)	MOTOR DATA			WEIGHT (LBS)	MANUFACTURER	MODEL NO.	REMARKS		
					HP	RPM	V						
EF 2	EXHAUST FAN	MENS 2	500	0.20	0.25	934	120	1	60	45	GREENHECK	SG-100VG	1,3,5
EF 3	EXHAUST FAN	FAMILY RESTROOM	100	0.10	0.01	935	120	1	60	12	GREENHECK	SP-80VG	1,4
EF 8	EXHAUST FAN	CONCESSIONS	600	0.20	0.25	934	120	1	60	45	GREENHECK	SG-100VG	1,4

- REMARKS:
- PROVIDE BACKDRAFT DAMPER AT CONNECTION TO RISER.
  - EXHAUST FAN IS CONTROLLED BY LIGHT SWITCH IN ROOM.
  - ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECTS FOR EQUIPMENT.
  - MECHANICAL CONTRACTOR TO PROVIDE MOTOR STARTER FOR EQUIPMENT.
  - EXHAUST FAN TO RUN CONTINUOUSLY DURING OCCUPIED HOURS AND CONTROLLED BY TIME CLOCK.

ROOM NUMBER	ROOM NAME	FLOOR AREA (SF)	OCCUPANCY CLASSIFICATION	DEFAULT OCCUPANCY (#/1000 SF)	# OF PEOPLE	IMC 2015 VENTILATION SCHEDULE									
						IMC 2015 REQUIREMENTS					ACTUAL			EQUIPMENT	
						OA (CFM/PERSON)	OA (CFM/SF)	OA (CFM)	EA (CFM)	SUPPLY (CFM)	OA (CFM)	EXHAUST (CFM)	SUPPLY FAN	EXHAUST FAN	
1	WOMENS	372 SF	TOILET ROOMS - PUBLIC	0	0	0	0.00	0	250	250 CFM	0	250 CFM	F 6	EF 2	
2	MENS	363 SF	TOILET ROOMS - PUBLIC	0	0	0	0.00	0	250	250 CFM	0	250 CFM	F 6	EF 2	
3	FAMILY RESTROOM	66 SF	TOILET ROOMS - PUBLIC	0	0	0	0.00	0	70	50 CFM	0	100 CFM	F 6	EF 3	
4	TENNIS STORAGE	127 SF	STORAGE ROOM (INACTIVE)	0	0	0	0.00	0	0	100 CFM	0	0 CFM	F 6	-	
5	SOFTBALL STORAGE	206 SF	STORAGE ROOM (INACTIVE)	0	0	0	0.00	0	0	150 CFM	0	0 CFM	F 6	-	
6	MECHANICAL	81 SF	STORAGE ROOM (INACTIVE)	0	0	0	0.00	0	0	0 CFM	0	0 CFM	-	-	
7	TRAINER/STORAGE	63 SF	STORAGE ROOM (INACTIVE)	0	0	0	0.00	0	0	75 CFM	0	0 CFM	F 6	-	
8	CONCESSIONS	711 SF	CAFETERIA, FAST FOOD	100	5	7.5	0.18	166	0	825 CFM	0	600 CFM	F 6	EF 8	

- REMARKS:
- CONCESSIONS SPACE MEETS NATURAL VENTILATION.

GRILLE, REGISTERS, AND DIFFUSER SCHEDULE											
TAG	AIR STREAM	MOUNTING TYPE	INLET SIZE (IN)			FRAME SIZE			MANUFACTURER	MODEL NO.	REMARKS
			DIA.	HEIGHT	WIDTH	HEIGHT	WIDTH	WIDTH			
A	SUPPLY	CEILING	6"			2'-0"	2'-0"		TITUS	OMNI	1-5
B	SUPPLY	CEILING	8"			2'-0"	2'-0"		TITUS	OMNI	1-5
C	RETURN	CEILING	8"			2'-0"	2'-0"		TITUS	PAR	2,4
D	RETURN	CEILING	6"			2'-0"	2'-0"		TITUS	PAR	2,4
E	EXHAUST	CEILING	8"			2'-0"	2'-0"		TITUS	PAR	2,4
F	EXHAUST	CEILING	10"			2'-0"	2'-0"		TITUS	PAR	2,4
H	RETURN	WALL	8"	8"	0'-9 1/2"	0'-9 1/2"	0'-9 1/2"		TITUS	350RL	2,4
I	RETURN	WALL	6"	12"	0'-7 1/2"	1'-1 1/2"			TITUS	350RL	2,4

- REMARKS:
- 4-WAY THROW UNLESS OTHERWISE NOTED.
  - PROVIDE ADAPTOR BOOTS AS REQUIRED.
  - PROVIDE WITH MANUAL VOLUME BALANCE DAMPER.
  - COORDINATE FRAME STYLES WITH ARCHITECTURAL PLANS.
  - REFER TO PLAN FOR FACE AND DUCT SIZING.

LOUVER SCHEDULE									
TAG	AIR STREAM	FLOW RATE (CFM)	FACE VELOCITY (FPM)	FREE AREA (SF)	WIDTH (IN.)	HEIGHT (IN.)	MANUFACTURER	MODEL NO.	REMARKS
L 1	EXHAUST	600	730	0.80	14	24	GREENHECK	ECD-401-14X24	ALL
L 2	EXHAUST	100	650	0.20	10	10	GREENHECK	ECD-401-10X10	ALL

- REMARKS:
- LOUVER TO BE UL LISTED.
  - LOUVER TO OPEN WHEN EF TURNS ON.
  - PROVIDE BACKDRAFT DAMPER AND BIRD SCREEN PRIOR TO CONNECTION TO LOUVER.

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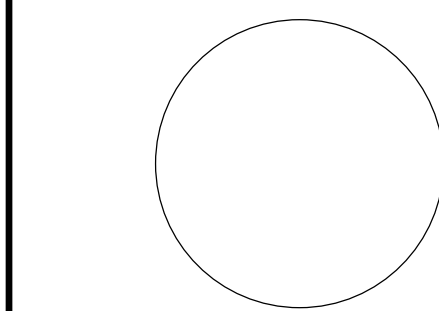
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PROJECT NUMBER 221124.00  
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MECHANICAL  
SCHEDULES AND  
DETAILS

M-200  
CONSTRUCTION



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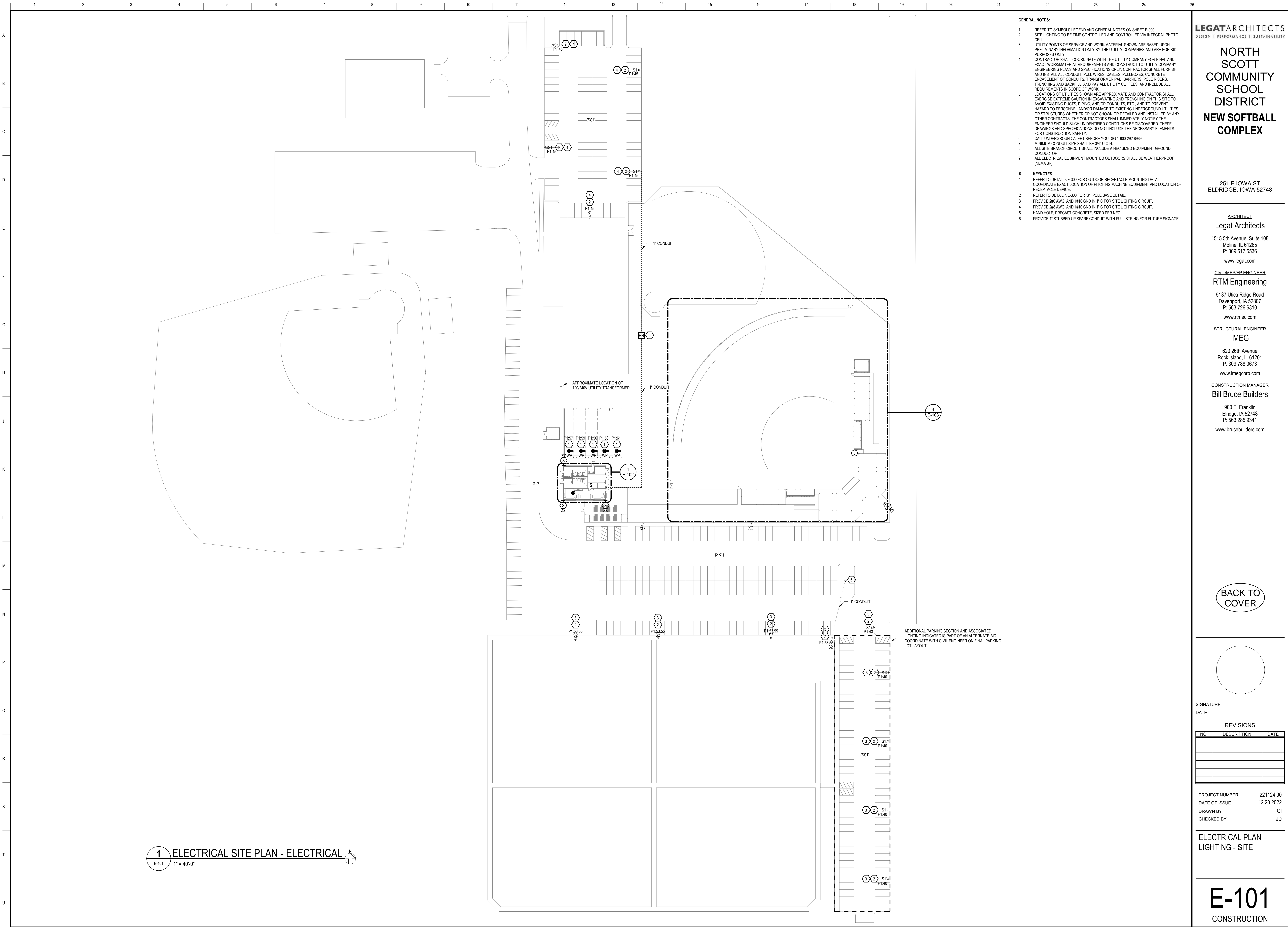
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DATE OF ISSUE                  12.20.2022  
DRAWN BY                      GI  
CHECKED BY                   JD

ELECTRICAL LEGEND

E-000

CONSTRUCTION





- GENERAL NOTES:**
- REFER TO SYMBOLS LEGEND AND GENERAL NOTES ON SHEET E-001.
  - SITE LIGHTING TO BE TIME CONTROLLED AND CONTROLLED VIA INTEGRAL PHOTO CELL.
  - UTILITY POINTS OF SERVICE AND WORKMATERIAL SHOWN ARE BASED UPON PRELIMINARY INFORMATION ONLY BY THE UTILITY COMPANIES AND ARE FOR BID PURPOSES ONLY.
  - CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY FOR FINAL AND EXACT WORKMATERIAL REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL WIRES, CABLES, PULLBOXES, CONCRETE ENCASUREMENT OF CONDUITS, TRANSFORMER PAD, BARRIERS, POLE RISERS, TRENCHING AND BACKFILL, AND PAY ALL UTILITY CO. FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.
  - LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE AND CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCTS, PIPING, AND/OR CONDUITS, ETC., AND TO PREVENT HAZARD TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES WHETHER OR NOT SHOWN OR DETAILED AND INSTALLED BY ANY OTHER CONTRACTS. THE CONTRACTORS SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE THE NECESSARY ELEMENTS FOR CONSTRUCTION SAFETY.
  - CALL UNDERGROUND ALERT BEFORE YOU DIG 1-800-292-8989.
  - MINIMUM CONDUIT SIZE SHALL BE 3/4" U.O.N.
  - ALL SITE BRANCH CIRCUIT SHALL INCLUDE A NEC SIZED EQUIPMENT GROUND CONDUCTOR.
  - ALL ELECTRICAL EQUIPMENT MOUNTED OUTDOORS SHALL BE WEATHERPROOF (NEMA 3R).
- # KEYNOTES**
- REFER TO DETAIL 3E-300 FOR OUTDOOR RECEPTACLE MOUNTING DETAIL. COORDINATE EXACT LOCATION OF PITCHING MACHINE EQUIPMENT AND LOCATION OF RECEPTACLE DEVICE.
  - REFER TO DETAIL 4E-300 FOR 'S1' POLE BASE DETAIL.
  - PROVIDE 2#6 AWG. AND 1#10 GND IN 1" C FOR SITE LIGHTING CIRCUIT.
  - PROVIDE 2#8 AWG. AND 1#10 GND IN 1" C FOR SITE LIGHTING CIRCUIT.
  - HAND HOLE, PRECAST CONCRETE, SIZED PER NEC.
  - PROVIDE 1" STUBBED UP SPARE CONDUIT WITH PULL STRING FOR FUTURE SIGNAGE.

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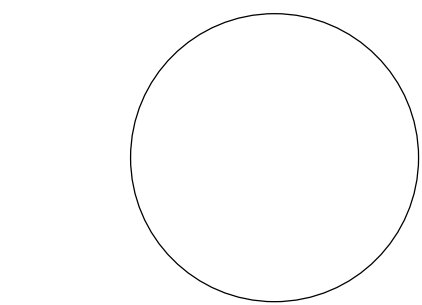
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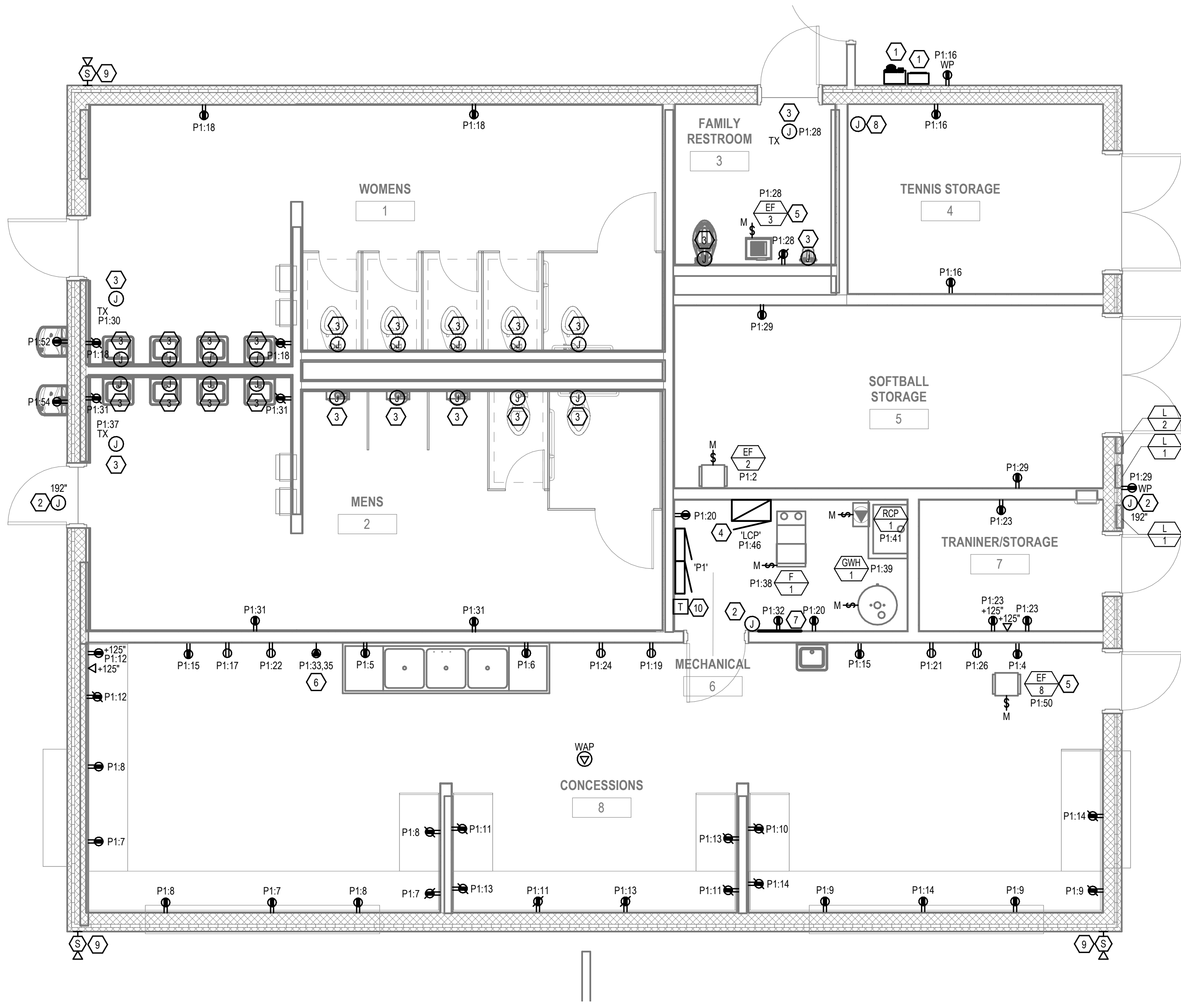
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**ELECTRICAL PLAN -  
LIGHTING - SITE**

**E-101**  
CONSTRUCTION





- GENERAL NOTES:**
1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
  2. PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122 INSTALLED ON ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-300 FOR FEEDER, GROUND & CONDUIT SIZES.
- KEYNOTES**
1. PROVIDE UTILITY METER AND CT CABINET PER LOCAL UTILITY REQUIREMENTS. COORDINATE EQUIPMENT LOCATION AND PROVIDED EQUIPMENT WITH UTILITY PRIOR TO PROCUREMENT AND INSTALLATION.
  2. PROVIDE 1" CONDUIT, CAT-5A CABLE, AND A BUILDING PENETRATION FOR POINT TO POINT BRIDGING EQUIPMENT TO PLYWOOD BACKBOARD IN MECHANICAL ROOM. LOCATION SHALL BE COORDINATED WITH OWNER FOR SMALL NETWORK SWITCH PROVIDED BY NORTH SCOTT SCHOOL DISTRICT. COORDINATE EXACT DESIRED LOCATION FOR POINT TO POINT EQUIPMENT ON BUILDING PRIOR TO INSTALLATION.
  3. PROVIDE ALL WIRING AND CONDUIT FOR ELECTRICAL CONNECTIONS FOR RESTROOM PLUMBING EQUIPMENT AUTOMATIC SENSORS AND EQUIPMENT LOW VOLTAGE TRANSFORMER FOR A FULLY OPERATIONAL SYSTEM PER MANUFACTURER'S INSTALLATION REQUIREMENTS. EC SHALL MOUNT LOW VOLTAGE TRANSFORMER FEEDING SENSORS ABOVE ACCESSIBLE LOCATION IN CEILING PROVIDED BY OTHERS IF NOT A PART OF EQUIPMENT.
  4. **INSTALL MUSCO LIGHTING CONTROL PANEL INCLUDED WITH MUSCO LIGHTING PACKAGE PROVIDED BY NORTH SCOTT SCHOOL DISTRICT PER MANUFACTURERS REQUIREMENTS.**
  5. THE EXHAUST FAN IS CONTROLLED WITH THE LIGHT SWITCH.
  6. PROVIDE NEMA 14-50R DEVICE AT 3' 6" AFF. WITH 3/8" AND #10 GND IN 3/4" C. FOR POPCORN MACHINE. COORDINATE SPECIFIC LOCATION WITH OWNER PRIOR TO INSTALLATION.
  7. PROVIDE PLYWOOD BACKBOARD FOR INSTALLATION OF NETWORK SWITCH PROVIDED BY OTHERS.
  8. PROVIDE HARDWIRED HEAT TRACE/TAPE FOR EXPOSED INCOMING WATER LINE PIPE AND ELECTRICAL CONNECTION FOR HEAT TRACE/TAPE. PROVIDE ALL PARTS AND PIECES REQUIRED FOR INSTALLATION. CHROMALOX CPM CABLE OR EQUIVALENT.
  9. CAMERA SHALL BE MOUNTED IN BUILDING SOFFIT.
  10. PROVIDE ASTRONOMICAL TIME CLOCK AND RELAY PANEL FOR EF-2 AND SITE LIGHTING CIRCUITS (NOT INCLUDING SOFTBALL FIELD LIGHTING).

**1 ELECTRICAL CONCESSION PLAN - POWER**  
E-102 1/4" = 1'-0"

**LEGAT ARCHITECTS**  
DESIGN | PERFORMANCE | SUSTAINABILITY

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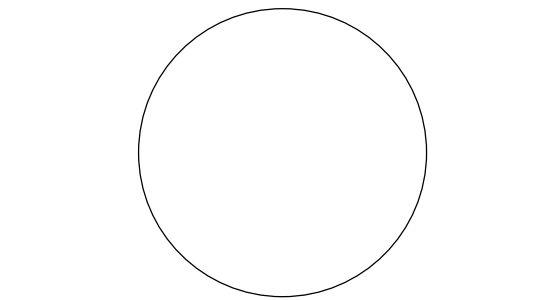
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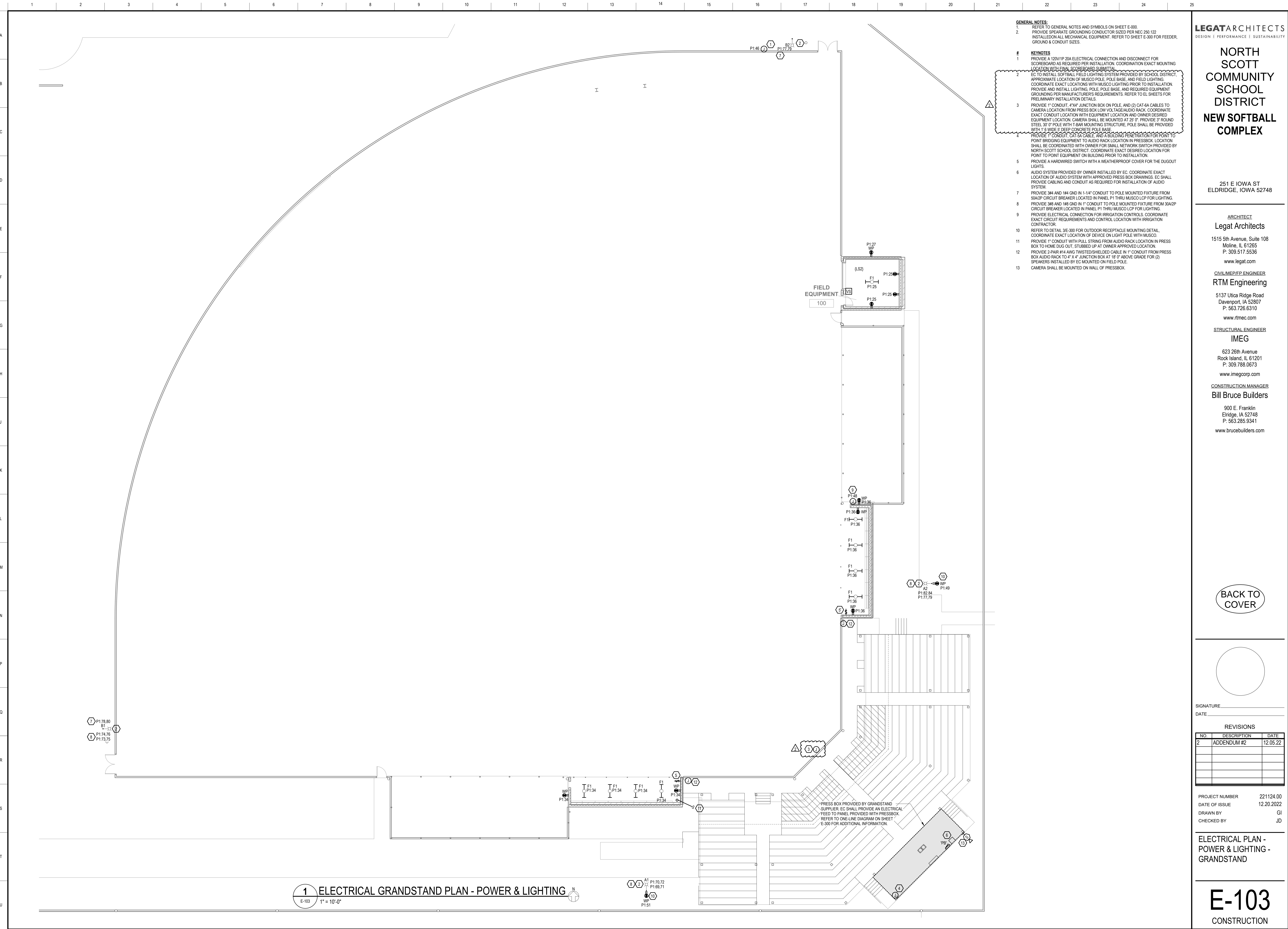
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**ELECTRICAL FIRST  
FLOOR PLAN - POWER -  
CONCESSION**

**E-102**  
CONSTRUCTION





- GENERAL NOTES:**
- REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.
  - PROVIDE SEPARATE GROUNDING CONDUCTOR SIZED PER NEC 250.122. INSTALL ALL MECHANICAL EQUIPMENT. REFER TO SHEET E-300 FOR FEEDER, GROUND & CONDUIT SIZES.
- KEYNOTES:**
- PROVIDE A 120V/1P 20A ELECTRICAL CONNECTION AND DISCONNECT FOR SCOREBOARD AS REQUIRED PER INSTALLATION. COORDINATE EXACT MOUNTING LOCATION WITH THE SCOREBOARD SUPPLIER.
  - EC TO INSTALL SOFTBALL FIELD LIGHTING SYSTEM PROVIDED BY SCHOOL DISTRICT. APPROXIMATE LOCATION OF MUSCO POLE, POLE BASE, AND FIELD LIGHTING. COORDINATE EXACT LOCATIONS WITH MUSCO LIGHTING PRIOR TO INSTALLATION. PROVIDE AND INSTALL LIGHTING, POLE, POLE BASE, AND REQUIRED EQUIPMENT GROUNDING PER MANUFACTURER'S REQUIREMENTS. REFER TO EL SHEETS FOR PRELIMINARY INSTALLATION DETAILS.
  - PROVIDE 1" CONDUIT, 4"x4" JUNCTION BOX ON POLE, AND (2) CAT-6A CABLES TO CAMERA LOCATION FROM PRESS BOX LOW VOLTAGE/AUDIO RACK. COORDINATE EXACT CONDUIT LOCATION WITH EQUIPMENT LOCATION AND OWNER DESIRED EQUIPMENT LOCATION. CAMERA SHALL BE MOUNTED AT 25' 0". PROVIDE 3" ROUND STEEL 30' 0" POLE WITH 1-8x8" MOUNTING STRUCTURE. POLE SHALL BE PROVIDED WITH 1' 6" WIDE 5' DEEP CONCRETE POLE BASE.
  - PROVIDE 1" CONDUIT, CAT-6A CABLE, AND A BUILDING PENETRATION FOR POINT TO POINT BRIDGING EQUIPMENT TO AUDIO RACK LOCATION IN PRESSBOX. LOCATION SHALL BE COORDINATED WITH OWNER FOR SMALL NETWORK SWITCH PROVIDED BY NORTH SCOTT SCHOOL DISTRICT. COORDINATE EXACT DESIRED LOCATION FOR POINT TO POINT EQUIPMENT ON BUILDING PRIOR TO INSTALLATION.
  - PROVIDE A HARDWIRED SWITCH WITH A WEATHERPROOF COVER FOR THE DUGOUT LIGHTS.
  - AUDIO SYSTEM PROVIDED BY OWNER INSTALLED BY EC. COORDINATE EXACT LOCATION OF AUDIO SYSTEM WITH APPROVED PRESS BOX DRAWINGS. EC SHALL PROVIDE CABLING AND CONDUIT AS REQUIRED FOR INSTALLATION OF AUDIO SYSTEM.
  - PROVIDE 3/4" AND 1/4" GND IN 1-1/4" CONDUIT TO POLE MOUNTED FIXTURE FROM 30A/2P CIRCUIT BREAKER LOCATED IN PANEL P1 THRU MUSCO LCP FOR LIGHTING.
  - PROVIDE 3/8" AND 1/8" GND IN 1" CONDUIT TO POLE MOUNTED FIXTURE FROM 30A/2P CIRCUIT BREAKER LOCATED IN PANEL P1 THRU MUSCO LCP FOR LIGHTING.
  - PROVIDE ELECTRICAL CONNECTION FOR IRRIGATION CONTROLS. COORDINATE EXACT CIRCUIT REQUIREMENTS AND CONTROL LOCATION WITH IRRIGATION CONTRACTOR.
  - REFER TO DETAIL 3E-300 FOR OUTDOOR RECEPTACLE MOUNTING DETAIL. COORDINATE EXACT LOCATION OF DEVICE ON LIGHT POLE WITH MUSCO.
  - PROVIDE 1" CONDUIT WITH PULL STRING FROM AUDIO RACK LOCATION IN PRESS BOX TO HOME DUG OUT, STUBBED UP AT OWNER APPROVED LOCATION.
  - PROVIDE 2-PAIR #14 AWG TWISTED/SHIELDED CABLE IN 1" CONDUIT FROM PRESS BOX AUDIO RACK TO 4' x 4' JUNCTION BOX AT 15' 0" ABOVE GRADE FOR (2) SPEAKERS INSTALLED BY EC MOUNTED ON FIELD POLE.
  - CAMERA SHALL BE MOUNTED ON WALL OF PRESSBOX.

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Moline, IL 61265  
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www.legat.com

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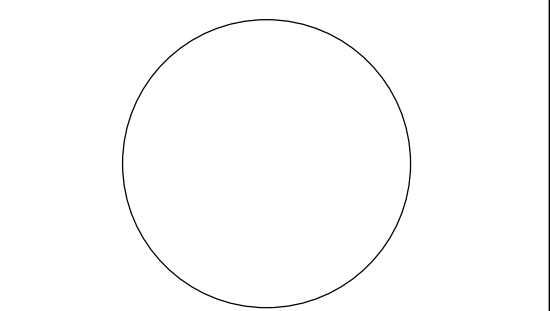
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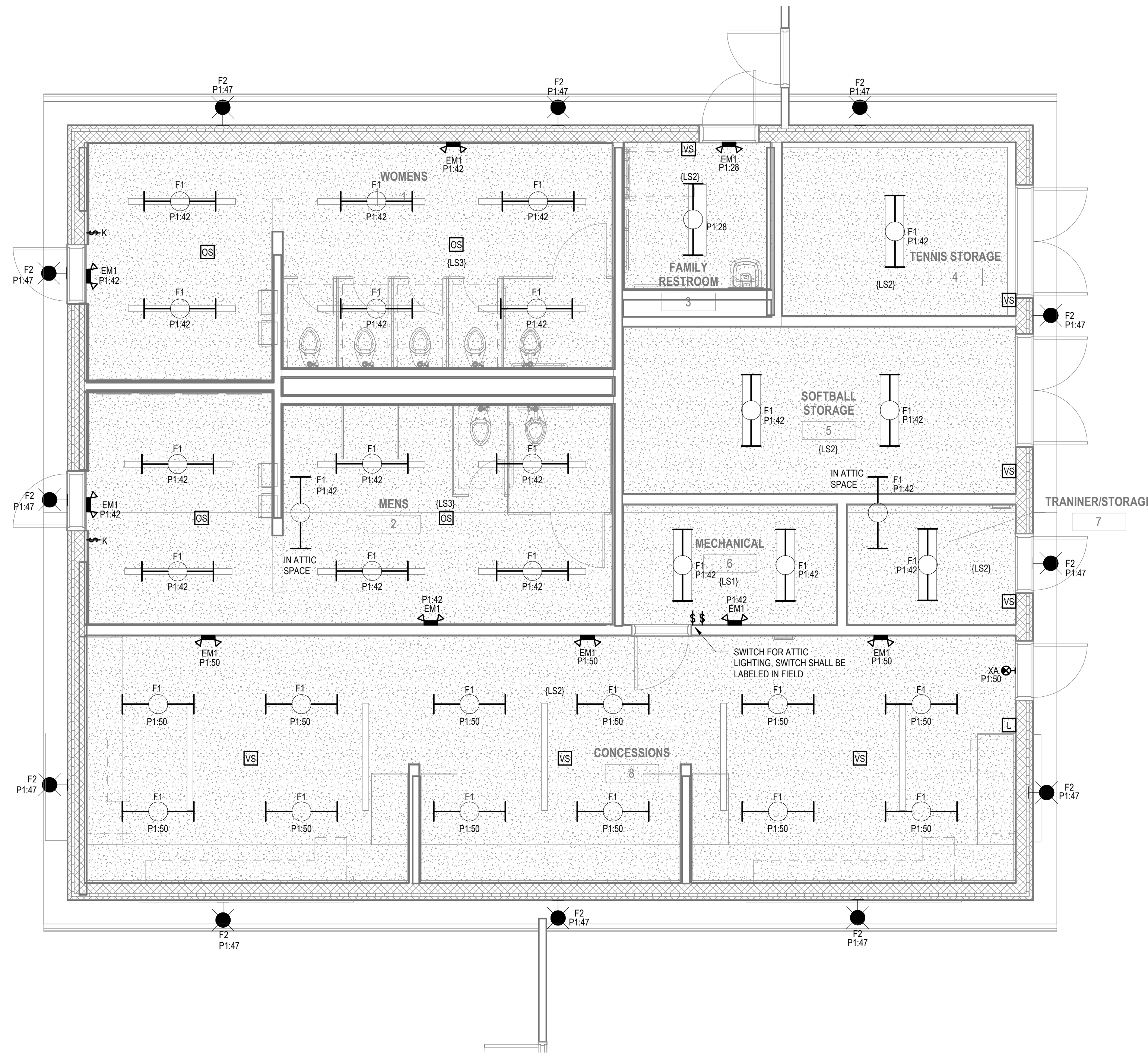
REVISIONS		
NO.	DESCRIPTION	DATE
2	ADDENDUM #2	12.05.22

PROJECT NUMBER 221124.00  
DATE OF ISSUE 12.20.2022  
DRAWN BY GI  
CHECKED BY JD

**ELECTRICAL PLAN -  
POWER & LIGHTING -  
GRANDSTAND**

**E-103**  
CONSTRUCTION





1 ELECTRICAL CONCESSION PLAN - LIGHTING  
E-201 1/4" = 1'-0"

GENERAL NOTES:  
1. REFER TO GENERAL NOTES AND SYMBOLS ON SHEET E-000.  
2. FOR ALL CEILING MOUNTED OCCUPANCY SENSORS, PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE AND OPERATIONAL SYSTEM, INCLUDING OCCUPANCY SENSORS, POWER PACKS, WALL OVERRIDE SWITCHES, RELAYS ETC.

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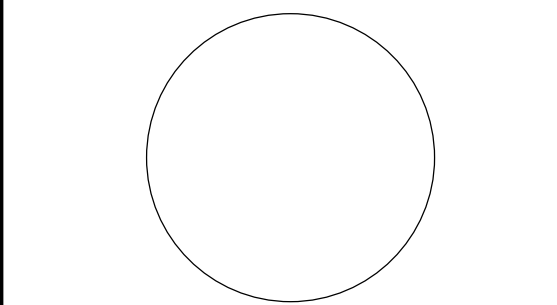
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**Legat Architects**  
1515 5th Avenue, Suite 108  
Moline, IL 61265  
P: 309.517.5536  
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P: 309.788.0673  
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NO.	DESCRIPTION	DATE

PROJECT NUMBER 221124.00  
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ELECTRICAL FIRST  
FLOOR PLAN - LIGHTING  
- CONCESSION

E-201  
CONSTRUCTION



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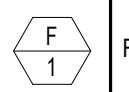
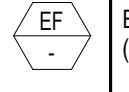



LIGHTING FIXTURE SCHEDULE										
TYPE	DESCRIPTION	FIXTURE TYPE	K	CRI	INPUT WATTS	VOLTS	MOUNTING TYPE	HEIGHT	MANUFACTURER	SPECIFIED FIXTURE MODEL NO.
A1	SOFTBALL FIELD LED MULTIPLE FLOOD HEADS ON FIELD LIGHTING POLE. BASIS OF DESIGN IS MUSCO LIGHTING REFER TO SHEETS EL SHEETS FOR MUSCO LIGHTING EQUIPMENT AND REQUIREMENTS. REFER TO FIXTURE SCHEDULE NOTE #4 FOR ADDITIONAL INFORMATION.	LED	40	80	<varies>	240	AFG	67' 0" 16' 0" 50' 0"	MUSCO	PROVIDED BY OTHERS, INSTALLED BY EC
A2	SOFTBALL FIELD LED MULTIPLE FLOOD HEADS ON FIELD LIGHTING POLE. BASIS OF DESIGN IS MUSCO LIGHTING REFER TO SHEETS EL SHEETS FOR MUSCO LIGHTING EQUIPMENT AND REQUIREMENTS. REFER TO FIXTURE SCHEDULE NOTE #4 FOR ADDITIONAL INFORMATION.	LED	40	80	<varies>	240	AFG	67' 0" 16' 0" 50' 0"	MUSCO	PROVIDED BY OTHERS, INSTALLED BY EC
B1	SOFTBALL FIELD LED MULTIPLE FLOOD HEADS ON FIELD LIGHTING POLE. BASIS OF DESIGN IS MUSCO LIGHTING REFER TO SHEETS EL SHEETS FOR MUSCO LIGHTING EQUIPMENT AND REQUIREMENTS. REFER TO FIXTURE SCHEDULE NOTE #4 FOR ADDITIONAL INFORMATION.	LED	40	80	<varies>	240	AFG	70' 0" 16' 0" 67' 0" 70' 0"	MUSCO	PROVIDED BY OTHERS, INSTALLED BY EC
B2	SOFTBALL FIELD LED MULTIPLE FLOOD HEADS ON FIELD LIGHTING POLE. BASIS OF DESIGN IS MUSCO LIGHTING REFER TO SHEETS EL SHEETS FOR MUSCO LIGHTING EQUIPMENT AND REQUIREMENTS. REFER TO FIXTURE SCHEDULE NOTE #4 FOR ADDITIONAL INFORMATION.	LED	40	80	7800	240	AFG	70' 0" 16' 0"	MUSCO	PROVIDED BY OTHERS, INSTALLED BY EC
EM1	EMERGENCY BUGEYE WITH EMERGENCY BATTERY BACKUP	LED	40	80	5	120	W	7' 6"	LITHONIA COOPER COMPASS	ELGC ATLEUM SERIES CU2 SERIES
F1	MOISTURE AND VANDAL INDUSTRIAL STRIP	LED	40	80	32	120	S	9' 0"	LCD LUMINAIRE LED FAIL-SAFE	RVG 4 1W36 35 80 S W VAR DM TP D VPS4 SERIES HVSLSQ SERIES 1
F2	EM WALLPACK WITH BACKUP BATTERY DRIVER.	LED	40	80	8	120	W	9' 0"	LITHONIA LEGION BEACON	ARC1 LED P2-40K-MVOLT-E4WH-PE ENSW SERIES GEOPACK SERIES 1
S1	SINGLE HEAD POLE MOUNTED FIXTURE WITH SQUARE STEEL 22' POLE WITH HANDHOLE AND VIBRATION DAMPER. REFER TO LIGHT POLE BASE INSTALLATION DETAIL 4E-300 FOR ADDITIONAL INFORMATION.	LED	30	80	109	120	AFG	25' 0"	LITHONIA BEACON COOPER	RSX14-LED-P3-30K-R4-MVOLT-SPA-PE VIBER V-P SERIES GLEON-SAS SERIES
S2	DOUBLE HEAD POLE MOUNTED FLOODLIGHT WITH SQUARE STEEL 22' POLE WITH HANDHOLE AND VIBRATION DAMPER. REFER TO LIGHT POLE BASE INSTALLATION DETAIL 4E-300 FOR ADDITIONAL INFORMATION.	LED	30	80	164	240	AFG	35' 0"	LITHONIA BEACON COOPER	RSX1 P5 30K WFL MVOLT AASP PE VIBER V-P SERIES GLEON-SAS SERIES
XA	SINGLE FACE EXIT SIGN WITH EMERGENCY BACKUP BATTERY	LED	0		5	120	(none)		LITHONIA CURRENT COOPER	LQM S W 3 R 120/277 EL N COMPASS OE SERIES SLX SERIES

FIXTURE SCHEDULE NOTES:  
1. PROVIDE ALL NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR A COMPLETE INSTALLATION OF FIXTURE(S) IN THE SPACE. COORDINATE ALL INSTALLATION REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.  
2. ALL INTERIOR FIXTURES SHALL BE SUPPLIED WITH A 0-10V DIMMING DRIVER, EXCEPT EXIT SIGMAGE.  
3. THE FIRST LISTED FIXTURE IN THE APPROVED MANUFACTURER'S COLUMN WITH A FULL PRODUCT NUMBER FOR EACH FIXTURE TYPE IS THE BASIS OF DESIGN. ADDITIONAL APPROVED PRODUCT SERIES LISTED MUST MEET ALL THE CHARACTERISTICS LISTED AS THE BASIS OF DESIGN FIXTURE. FINAL PRODUCT APPROVAL WILL BE PROVIDED DURING THE SUBMITTAL PROCESS.

MOUNTING TYPE ABBREVIATIONS:  
P PENDANT  
R RECESSED  
S SURFACE  
W WALL

LIGHTING SEQUENCE OF OPERATIONS SCHEDULE	
PLAN SYMBOL	LIGHT FIXTURE CONTROL OPERATION
(LS1)	SEQUENCE: SWITCHED LIGHT(S) ARE SWITCHED IN THIS SPACE. ON: LIGHT(S) TURN ON MANUALLY WITH A WALL SWITCH. OFF: LIGHT(S) TURN OFF MANUALLY WITH A WALL SWITCH.
(LS2)	SEQUENCE: SWITCHED LIGHT(S) ARE VACANCY CONTROLLED IN THIS SPACE. ON: LIGHT(S) TURN ON MANUALLY WITH A WALL SWITCH. OFF: LIGHT(S) TURN OFF MANUALLY WITH A WALL SWITCH OR IF THE SPACE HAS BEEN VACANT FOR 20 MINUTES THE LIGHT(S) WILL AUTOMATICALLY TURN OFF.
(LS3)	SEQUENCE: SWITCHED LIGHT(S) ARE OCCUPANCY CONTROLLED IN THIS SPACE. ON: LIGHT(S) TURN ON MANUALLY WITH A WALL SWITCH OR AUTOMATICALLY VIA THE OCCUPANCY SENSOR. OFF: LIGHT(S) TURN OFF MANUALLY WITH A WALL SWITCH OR IF THE SPACE HAS BEEN VACANT FOR 20 MINUTES THE LIGHT(S) WILL AUTOMATICALLY TURN OFF.
(SS1)	SEQUENCE: SWITCHED LIGHT(S) ARE TIME OF DAY CONTROLLED. ON: LIGHT(S) TURN ON MANUALLY WITH A WALL CONTROLLER OR AUTOMATICALLY WITH TIMELOCK AND PHOTOCELL AT DUSK. OFF: LIGHT(S) TURN OFF MANUALLY WITH A WALL CONTROLLER OR AUTOMATICALLY WITH TIMELOCK AND PHOTOCELL AT DAWN.

NOTES:  
1. EMERGENCY WALL PACKS OR EMERGENCY HEAD LIGHTS SHALL REMAIN OFF UNTIL LOSS OF NORMAL POWER IN SPACE/AREA.

MECHANICAL EQUIPMENT CONNECTION SCHEDULE						
TAG<1>	DESCRIPTION<2>	LOAD<3>	WIRE/CONDUIT<4>	STARTER<5>	VOLTAGE<6>	LOCAL DISCONNECT<7>
 F1	FORCED AIR FURNACE	11 MCA 15 MCOF	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	<input type="checkbox"/> PROVIDED BY MC <input type="checkbox"/> IN MCC NEMA SIZE TYPE	120V 1P	<input type="checkbox"/> FUSED A FUSE <input checked="" type="checkbox"/> NON-FUSED A SWITCH <input type="checkbox"/> THERMAL SWITCH, 120V,1P
 EF2	EXHAUST FAN (2.8)	25 HP	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	<input type="checkbox"/> PROVIDED BY MC <input type="checkbox"/> IN MCC NEMA SIZE TYPE	120V 1P	<input type="checkbox"/> FUSED A FUSE <input checked="" type="checkbox"/> NON-FUSED A SWITCH <input type="checkbox"/> THERMAL SWITCH, 120V,1P
 EF3	EXHAUST FAN	.01 HP	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	<input type="checkbox"/> PROVIDED BY MC <input type="checkbox"/> IN MCC NEMA SIZE TYPE	120V 1P	<input type="checkbox"/> FUSED A FUSE <input checked="" type="checkbox"/> NON-FUSED A SWITCH <input type="checkbox"/> THERMAL SWITCH, 120V,1P
 GWH1	GAS WATER HEATER	5 AMPS	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	<input type="checkbox"/> PROVIDED BY MC <input type="checkbox"/> IN MCC NEMA SIZE TYPE	120V 1P	<input type="checkbox"/> FUSED A FUSE <input checked="" type="checkbox"/> NON-FUSED A SWITCH <input type="checkbox"/> THERMAL SWITCH, 120V,1P
 RCP1	RECIRCULATION PUMP	.17 HP	(2) #12 AWG (1) #12 AWG EQ. GND. 3/4" C.	<input type="checkbox"/> PROVIDED BY MC <input type="checkbox"/> IN MCC NEMA SIZE TYPE	120V 1P	<input type="checkbox"/> FUSED A FUSE <input checked="" type="checkbox"/> NON-FUSED A SWITCH <input type="checkbox"/> THERMAL SWITCH, 120V,1P

#### SCHEDULE KEY NOTES

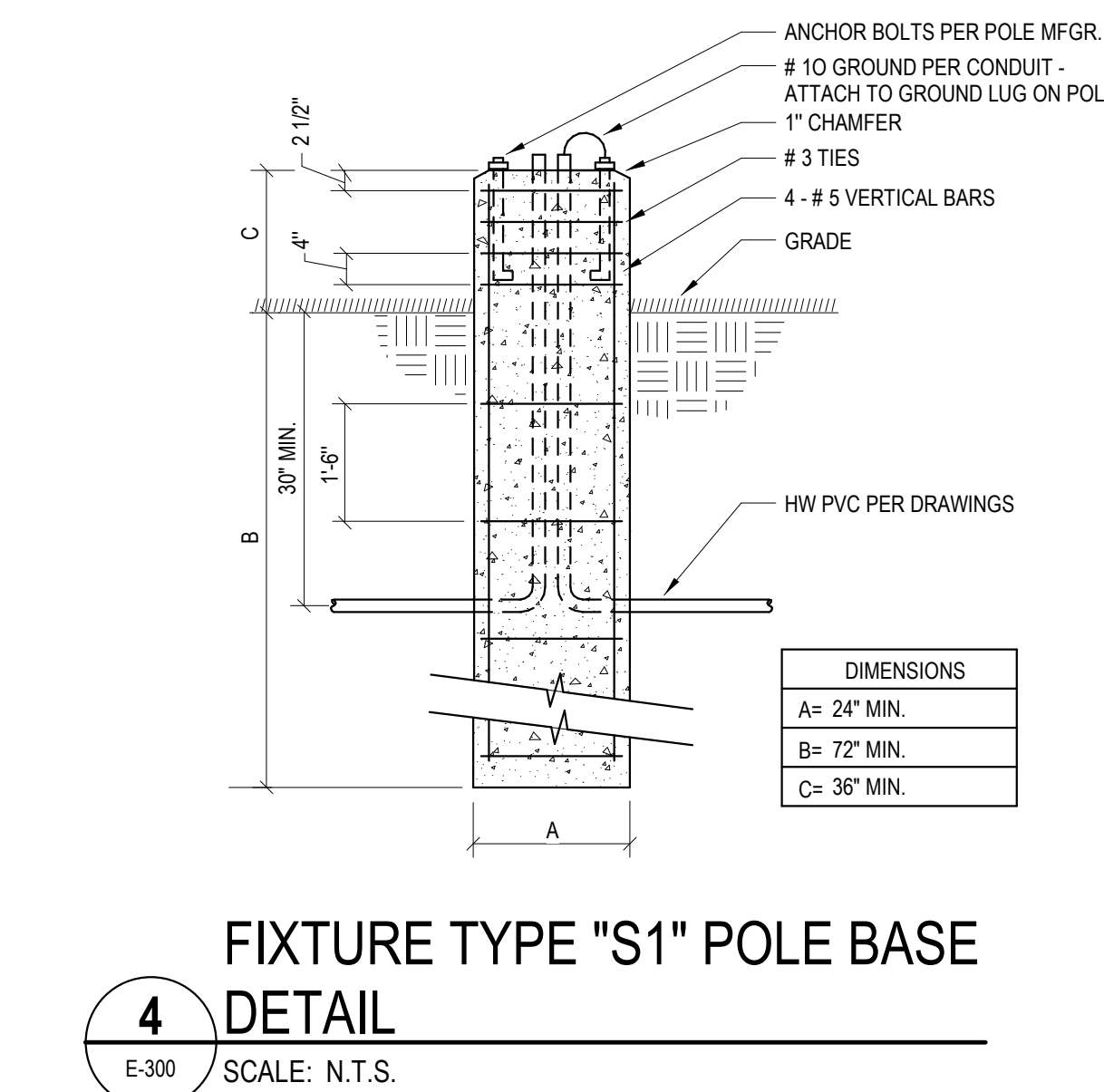
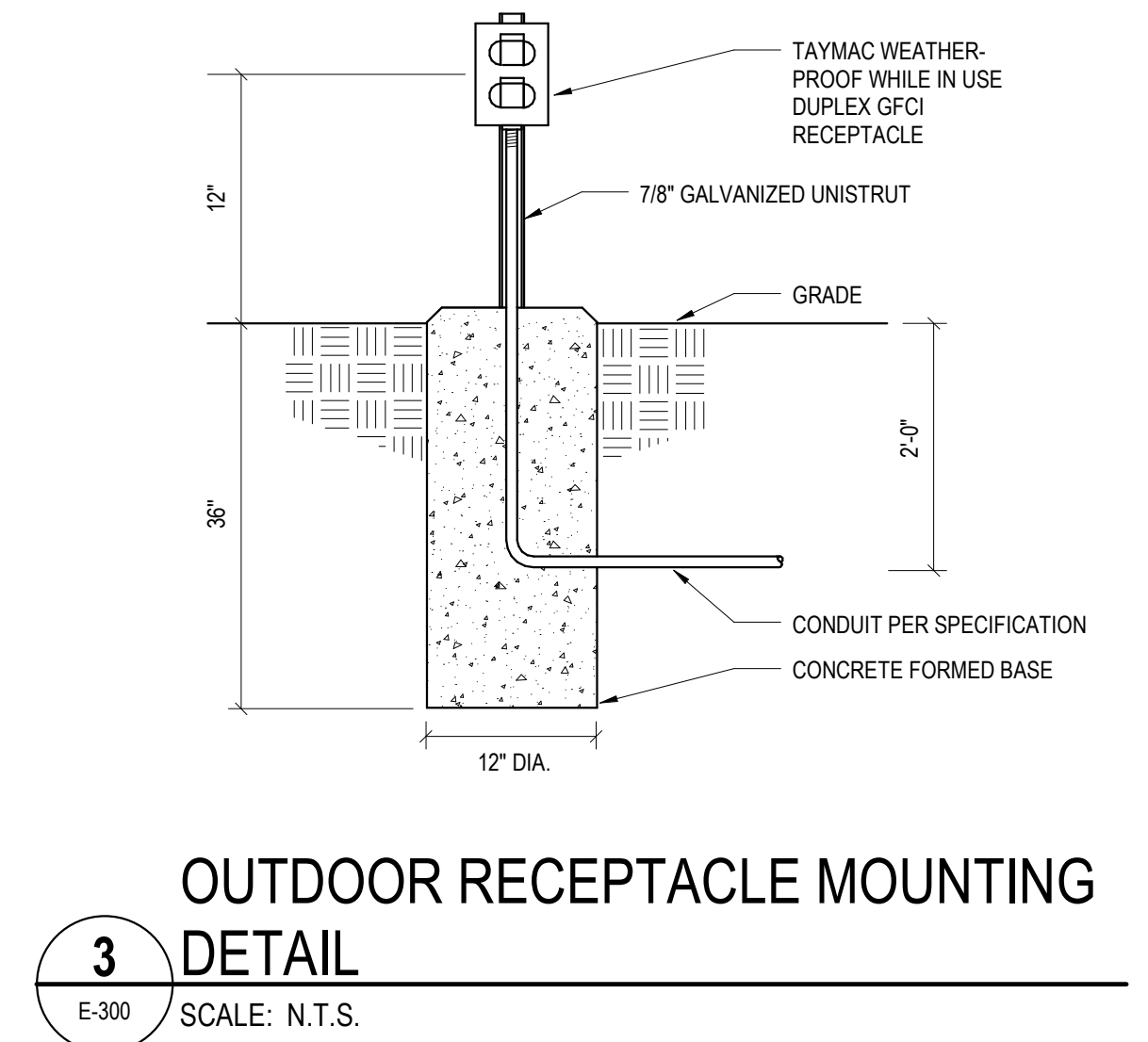
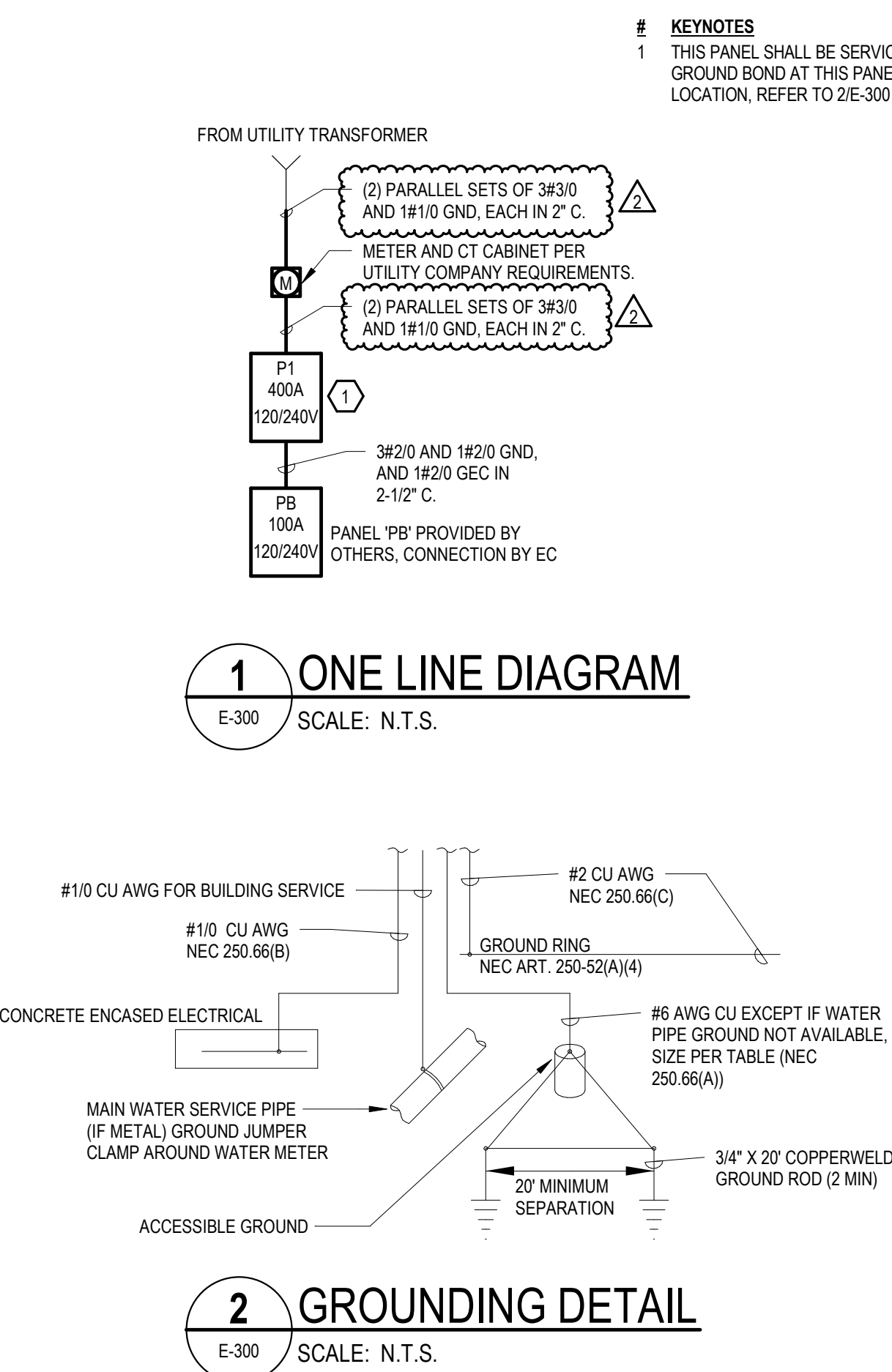
- VERIFY FINAL LOCATION OF ALL EQUIPMENT WITH EQUIPMENT INSTALLER BEFORE INSTALLING FEEDERS.
- SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR MORE INFORMATION.
- SIZE STARTER/FEEDER DISCONNECT PER FINAL EQUIPMENT REQUIREMENTS.
- PROVIDE FEEDERS AS INDICATED. VERIFY WITH EQUIPMENT REQUIREMENTS.
- COORDINATE FINAL STARTER WIRING REQUIREMENTS WITH MECHANICAL EQUIPMENT. PROVIDE ADDITIONAL WIRING AS REQUIRED FOR INSTALLATION (STARTERS) FOR MECHANICAL EQUIPMENT. PROVIDE OVERLOAD PROTECTION (FUSES OR MOTOR CIRCUIT PROTECTOR) PER SPECIFICATIONS. ACTUAL FIELD VERIFY FINAL VOLTAGE AND PHASE REQUIREMENTS OF ALL EQUIPMENT WITH INSTALLER BEFORE INSTALLING FEEDERS.
- EC TO PROVIDE LOCAL DISCONNECT WITHIN 5'-0" OF EQUIPMENT. NON-STANDARD ITEMS, TIMERS, METERS, INTERLOCKS, ETC.

#### SCHEDULE GENERAL NOTES

- PROVIDE POWER CONNECTIONS TO ALL ARCHITECTURAL, MECHANICAL, PLUMBING, FIRE PROTECTION AND OWNER FURNISHED EQUIPMENT. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR LOCATIONS AND POWER REQUIREMENTS. VERIFY ALL TECHNICAL DATA WITH FINAL SHOP DRAWINGS.
- OVER CURRENT PROTECTION SIZES LISTED ARE FROM MANUFACTURERS AND STANDARD MOTOR DATA. FURNISH FUSES BASED ON FUSE MANUFACTURER'S STANDARDS. ACTUAL FIELD MEASURED FULL LOAD CURRENT, AND EQUIPMENT MANUFACTURER'S REQUIREMENTS.
- FLEXIBLE CONNECTIONS TO MOTORS SHALL BE IN FLEXIBLE CONDUIT. PROVIDE COPPER EQUIPMENT GROUND FROM DISCONNECT TO MOTOR CONNECTION.
- EC TO COORDINATE WITH THE MECHANICAL EQUIPMENT SCHEDULES TO PROVIDE DISCONNECTS FOR THE MECHANICAL EQUIPMENT.

Branch Panel: P1													
Location: MECHANICAL 6 Supply From: 150KVA T-1 Mounting: Surface Enclosure: Type 1						Volts: 120/240 Single Phases: 1 Wires: 3			A.I.C. Rating: Main Type: MCB Bus Amps: 400 A MCB Rating: 400 A				
CB Info	CKT	Circuit Description	Amps	Trip	Poles	A	B	Poles	Trip	Amps	Circuit Description	CKT	CB Info
	1	PB	25.24	100 A	2	3029 VA 696 VA		1	15 A 5.8 A	EF-2		2	R
	5	RECEPTS: CONCESSIONS	1.5 A	20 A	1	180 VA 180 VA	3029 VA 180 VA	1	20 A 1.5 A	RECEPTS: CONCESSIONS		4	
	7	RECEPTS: CONCESSIONS	4.5 A	20 A	1	540 VA 180 VA	540 VA 720 VA	1	20 A 6 A	RECEPTS: CONCESSIONS		8	
	9	RECEPTS: CONCESSIONS	4.5 A	20 A	1	540 VA 180 VA		1	20 A 1.5 A	RECEPTS: CONCESSIONS		10	
	11	RECEPTS: CONCESSIONS	4.5 A	20 A	1	540 VA 180 VA	540 VA 360 VA	1	20 A 3 A	RECEPTS: CONCESSIONS		12	
	13	RECEPTS: CONCESSIONS	4.5 A	20 A	1	540 VA 540 VA		1	20 A 4.5 A	RECEPTS: CONCESSIONS		14	
	15	RECEPTS: CONCESSIONS	3 A	20 A	1		360 VA 540 VA	1	20 A 4.5 A	RECEPTS TENNIS STORAGE		16	
G	17	REFRIDGERATOR	7.5 A	20 A	1	900 VA 720 VA		1	20 A 6 A	RECEPTS RESTROOMS		18	
G	19	REFRIDGERATOR	7.5 A	20 A	1	900 VA 360 VA		1	20 A 3 A	RECEPTS MECHANICAL ROOM		20	
G	21	REFRIDGERATOR	7.5 A	20 A	1	900 VA 900 VA	540 VA 900 VA	1	20 A 7.5 A	REFRIDGERATOR		22	G
	23	RECEPTS: TRAINER	4.5 A	20 A	1	540 VA 300 VA		1	20 A 7.5 A	REFRIDGERATOR		24	G
	25	RECEPTS: FIELD EQUIPMENT ROOM	4.77 A	20 A	1	572 VA 900 VA		1	20 A 7.5 A	REFRIDGERATOR		26	G
	27	RECEPTS: FIELD EQUIPMENT ROOM	1.5 A	20 A	1		180 VA 397 VA	1	20 A 3.31 A	FAMILY RESTROOM POWER		28	
	29	RECEPTS: STORAGE	4.5 A	20 A	1	540 VA 300 VA		1	20 A 7.5 A	REFRIDGERATOR		30	
	31	RECEPTS: MENS RESTROOM	6 A	20 A	1		720 VA 180 VA	1	20 A 1.5 A	IT RACK		32	
	33	POPCORN MACHINE	26.46	40 A	2	3175 VA 488 VA		1	20 A 4.07 A	DUGOUT DEVICES		34	
	35	LAVATORY EQUIPMENT	1.5 A	20 A	1	180 VA 1320 VA	3175 VA 668 VA	1	20 A 5.57 A	DUGOUT DEVICES		36	
	37	LAVATORY EQUIPMENT	5 A	20 A	1	528 VA 875 VA		1	15 A 11 A	F-I		38	
	39	GNH-1	5 A	20 A	1	528 VA 875 VA	600 VA 436 VA	1	20 A 3.83 A	SITE LIGHTING		40	
	41	RCH-1	4.4 A	20 A	1	545 VA 1680 VA		1	20 A 5.83 A	CONCESSION LIGHTING		42	
R	43	SITE LIGHTING	0.91 A	20 A	1	180 VA 1100 VA	109 VA 300 VA	1	20 A 2.5 A	MUSCO LIGHTING CONTROL PANEL		44	
R	45	SITE LIGHTING	4.54 A	20 A	1	545 VA 1680 VA		1	20 A 14 A	SCOREBOARD		46	
	47	CONCESSION BUILDING MOUNTED	0.8 A	20 A	1	180 VA 1100 VA	96 VA 180 VA	1	20 A 1.5 A	PRIGATION CONTROL		48	
	49	LIGHT POLE RECEPT	1.5 A	20 A	1	180 VA 1100 VA		1	15 A 9.17 A	CONCESSION LIGHTING AND FAN		50	
R	51	LIGHT POLE RECEPT	1.5 A	20 A	1		180 VA 180 VA	1	20 A 1.5 A	DRINKING FOUNTAIN		52	
	53	SITE LIGHTING	2.73 A	20 A	2	328 VA 180 VA	328 VA 1200 VA	1	20 A 1.5 A	DRINKING FOUNTAIN		54	
	55	PITCHING MACHINE	10 A	20 A	1	1200 VA 1200 VA		1	20 A 10 A	PITCHING MACHINE		56	
	57	PITCHING MACHINE	10 A	20 A	1	1200 VA 1200 VA	1200 VA 0 VA	1	20 A 10 A	PITCHING MACHINE		58	
	59	PITCHING MACHINE	10 A	20 A	1	1200 VA 1200 VA		1	20 A 10 A	PITCHING MACHINE		60	
	61	PITCHING MACHINE	10 A	20 A	1	1200 VA 1200 VA	1200 VA 0 VA	1	20 A 10 A	PITCHING MACHINE		62	
	63	SPARE	--	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A 10 A	SPARE		64	
	65	SPARE	--	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A 10 A	SPARE		66	
	67	SPARE	--	20 A	1	0 VA 0 VA	0 VA 0 VA	1	20 A 10 A	SPARE		68	
M	69	A1 - SECURITY LIGHTING	4.6 A	20 A	2	552 VA 2532 VA	552 VA 2532 VA	2	30 A 21.1 A	A1 - SOFTBALL LIGHTING		70	M
	71	B1 - BATTING CAGE LIGHTING	9.2 A	20 A	2	1104 VA 1104 VA	1104 VA 1104 VA	2	30 A 9.2 A	B1 - SECURITY LIGHTING		72	
M	73	B2 - SOFTBALL LIGHTING	32.5 A	50 A	2	3900 VA 3900 VA	3900 VA 3900 VA	2	50 A 32.5 A	B1 - SOFTBALL LIGHTING		74	M
	75	A2 - SECURITY LIGHTING	4.6 A	20 A	2	552 VA 2532 VA	552 VA 2532 VA	2	30 A 21.1 A	A1 - SOFTBALL LIGHTING		76	M
M	81	A2 - SECURITY LIGHTING	4.6 A	20 A	2	552 VA 2532 VA	552 VA 2532 VA	2	30 A 21.1 A	A1 - SOFTBALL LIGHTING		82	M
Total Load:						41668 VA	347 A			35274 VA			
Total...						347 A	294 A						
CIRCUIT BREAKER INFORMATION LEGEND:													
G = GROUND FAULT SENSING M = CIRCUIT SHALL BE CONTROLLED AND CIRCUITED THRU MUSCO LIGHTING CONTROL PANEL L = LOCK OUT R = CIRCUIT SHALL BE INSTALLED AND CONTROLLED THRU RELAY PANEL AND TIMELOCK													
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals									
Appliance - Dwelling Unit	528 VA	100.00%	528 VA	Total Conn. Load: 70583 VA									
HVAC	1392 VA	100.00%	1392 VA	Total Est. Demand: 73637 VA									
Lighting - Exterior	12216 VA	125.00%	15270 VA	Total Conn.: 294 A									
Other	2016 VA	100.00%	2016 VA	Total Est. Demand: 307 A									
Power	31250 VA	100.00%	31250 VA										
Lighting	23286 VA	100.00%	23286 VA										
Notes: PANEL SHALL BE SERVICE ENTRANCE RATED. PROVIDE NEUTRAL TO GROUND BOND IN THIS PANEL. REFER TO 2IE-300 FOR BUILDING GROUNDING DETAIL													

VOLTAGE DROP SCHEDULE					
DEVICE	FEEDER		BRANCH CIRCUIT		TOTAL VOLTAGE DROP
	VOLTAGE DROP	WIRE SIZE	MAX VOLTAGE DROP	CIRCUIT NUMBER	WIRE SIZE
150KVA T-1	0.00%				0.00%
P1	0.84%	600kcmil	2.99%	45	#8
PB	0.84%	2/0			0.84%



LEGATARCHITECTS  
DESIGN | PERFORMANCE | SUSTAINABILITY

## NORTH SCOTT COMMUNITY SCHOOL DISTRICT NEW SOFTBALL COMPLEX

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2	ADDENDUM #2	12.05.22

PROJECT NUMBER 22114.00  
DATE OF ISSUE 12.20.2022  
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ELECTRICAL  
SCHEDULES AND  
DETAILS

E-300  
CONSTRUCTION

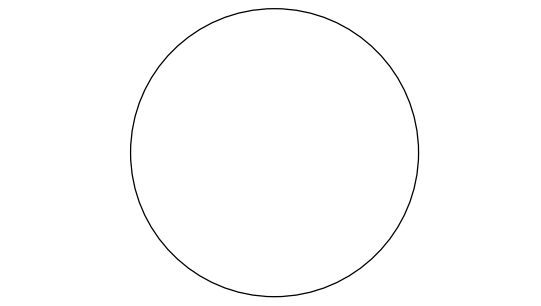


NORTH  
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NEW SOFTBALL  
COMPLEX

251 E IOWA ST  
ELDRIDGE, IOWA 52748

ARCHITECT  
Legat Architects  
1515 5th Avenue, Suite 108  
Moline, IL 61265  
P: 309.517.5536  
www.legat.com  
CIVIL/MEP/FP ENGINEER  
RTM Engineering  
5137 Utica Ridge Road  
Davenport, IA 52807  
P: 563.726.6310  
www.rtmec.com  
STRUCTURAL ENGINEER  
IMEG  
623 26th Avenue  
Rock Island, IL 61201  
P: 309.788.0673  
www.imegcorp.com  
CONSTRUCTION MANAGER  
Bill Bruce Builders  
900 E. Franklin  
Eldridge, IA 52748  
P: 563.285.9341  
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MUSCO SOFTBALL  
FIELD LIGHTING  
DRAWINGS

EL-100  
CONSTRUCTION

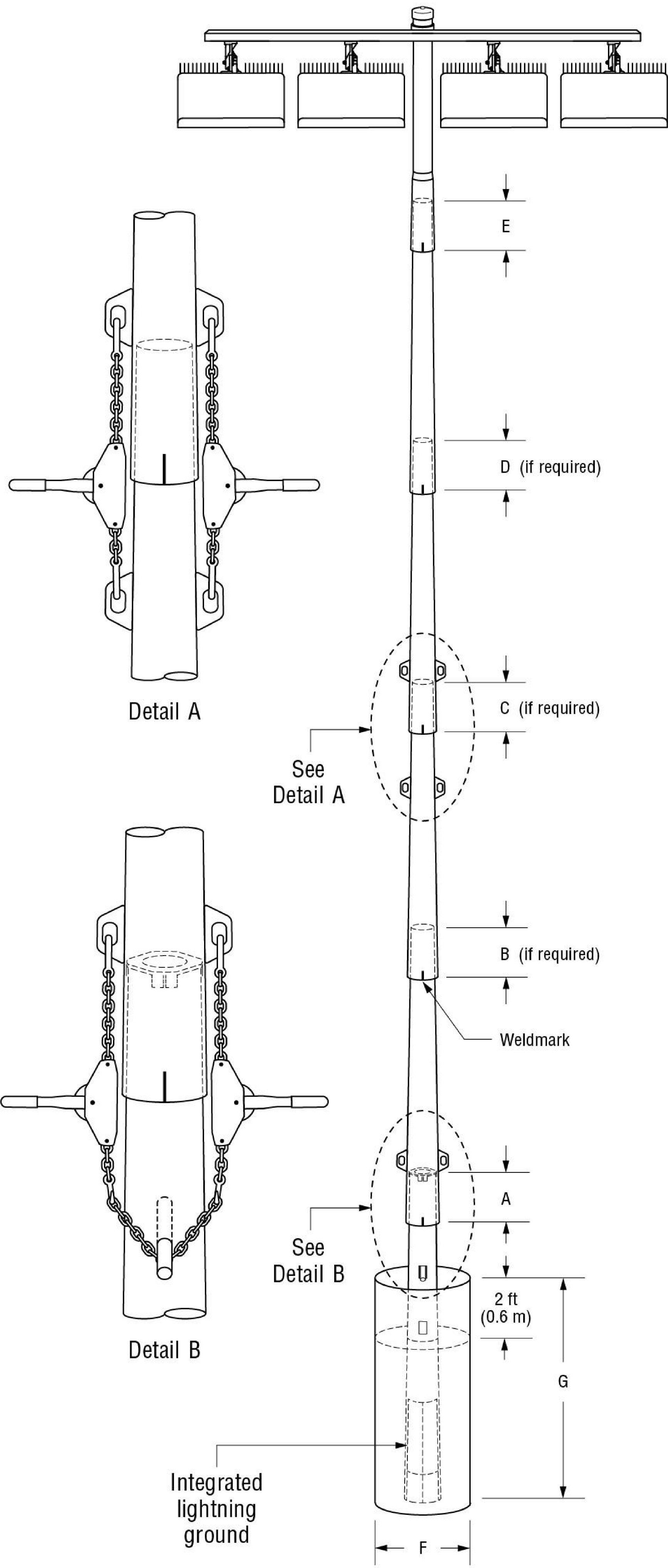
PRELIMINARY FOUNDATION AND POLE ASSEMBLY DRAWING

TABLE 1: POLE ASSEMBLY			
POLE ID	POLE HEIGHT ft (m)	# OF LUMINAIRES	ASSEMBLED POLE WEIGHT <sup>3</sup> lb (kg)
A1	60 (18.3)	5	1136 (515)
A2	60 (18.3)	5	1136 (515)
B1	70 (21.3)	9	2493 (1131)
B2	70 (21.3)	5	1650 (748)

- Pole Assembly Notes:
- Steel pole should overlap concrete base and be seated tight with 1 1/2 ton come-alongs (contractor provided).
  - Align weldmarks on steel sections before assembling.
  - Assembled pole weight includes steel sections, crossarms, luminaires, and electrical components enclosures.
  - Section overlap must be pulled together until tight. Overlap measurement should be +/- 6 in (150 mm).
  - This document is not intended for use as an assembly instruction. See *Installation Instructions: Light-Structure System™ Lighting System* for complete assembly procedure.

TABLE 2: FOUNDATION DETAILS							
POLE ID	CONCRETE BASE WEIGHT lb( kg)	BURIAL INFORMATION <sup>3,4</sup>			CUT BASE	LIGHTNING GROUND <sup>5</sup>	
		F in (mm)	G ft (m)	CONCRETE BACKFILL <sup>1,2</sup> yd <sup>3</sup> ( m <sup>3</sup> )		TYPE	SUPPLEMENTAL INSTRUCTION
A1	1870 (848)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED <sup>6</sup>	N/A
A2	1870 (848)	30 (762)	10 (3.0)	1.2 (0.9)	NO	INTEGRATED <sup>6</sup>	N/A
B1	3780 (1715)	30 (762)	14 (4.3)	1.6 (1.2)	NO	INTEGRATED <sup>6</sup>	N/A
B2	2720 (1234)	30 (762)	12 (3.7)	1.5 (1.1)	NO	INTEGRATED <sup>6</sup>	N/A

- Foundation Notes:
- Concrete backfill is calculated to 2 ft (0.6m) below grade (no overage included). Top 2 ft (0.6m) to be class 5 soil compacted to 95% density of surrounding undisturbed soil unless otherwise specified in stamped structural design.
  - Concrete backfill required 3000 lb/in² (20 MPa) minimum.
  - Foundation design per 2015 IBC, 115 mph, exposure category C, variation STD (Risk Category II).
  - Assumes IBC class 5 soils.
  - Standard bases include integrated lightning protection. If bases are cut, supplemental lightning protection is required. Contact Musco for materials and instruction.
  - Lightning protection is a manufacturer installed concrete encased electrode and connector. Ground connection is made when concrete base is installed and footing is poured. No additional steps required.



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North Scott High School Softball - Eldridge, IA, USA

Date: 10/05/2022 Scale: N/A  
Rep: Jason Schillig Page: 1 of 1  
Project: 201729 Preliminary



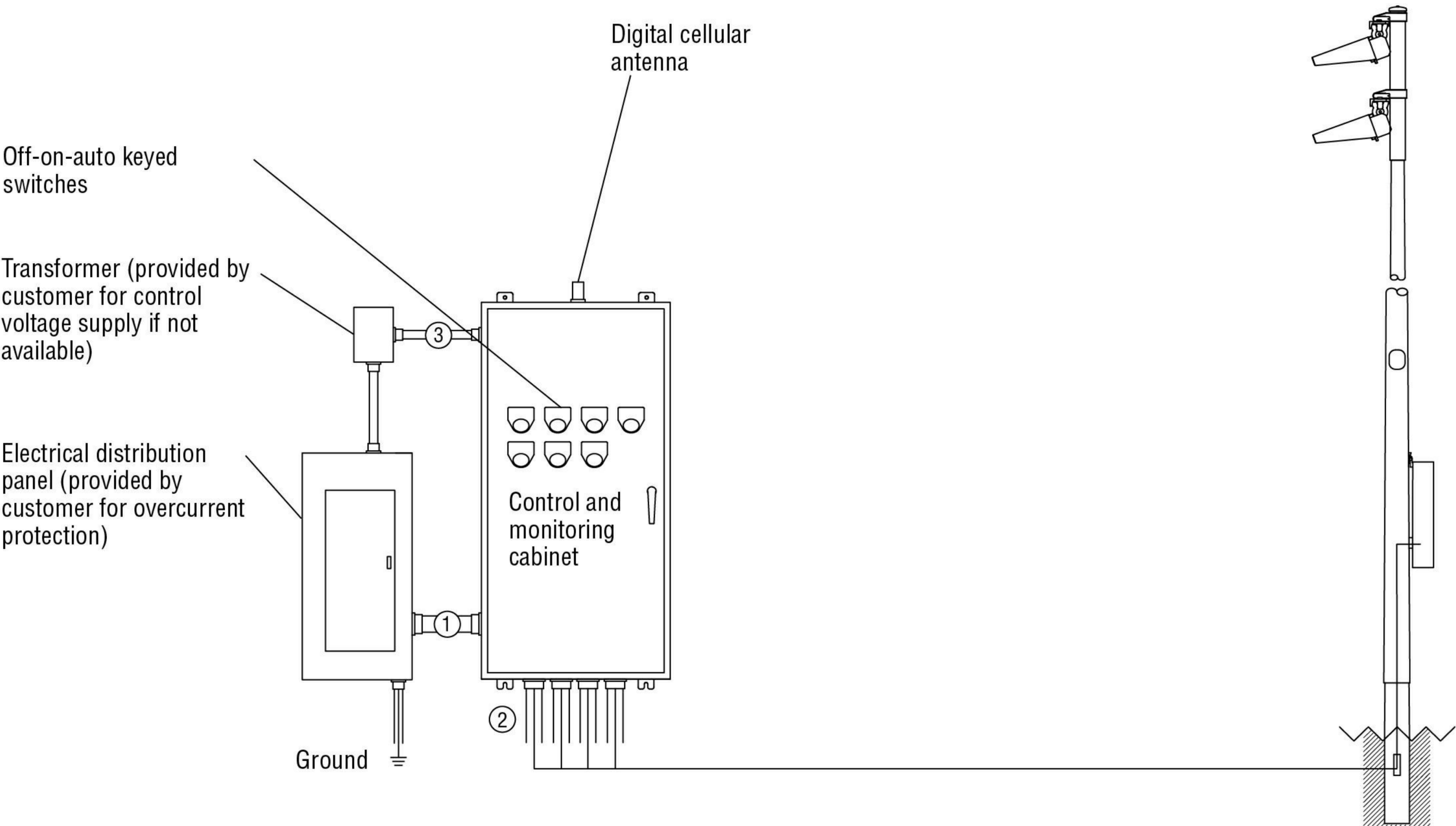




# Control System Summary

North Scott High School Softball / 201729 - 201729A  
Softball - Page 2 of 4

## Control•Link® Control and Monitoring System



Conduit ID	Description	# of Wires	Wire (AWG)	Conduit (in)	Max. Wire Length (ft)	MUSCO Supplied	Notes
1	Line power to contactors, and equipment grounding conductor	*A	*B	*C	N/A	No	A-E
2	Load power to lighting circuits, and equipment grounding conductor	*A	*B	*C	N/A	No	A-E
3	Control power (dedicated, 20A)	3	12	*C	N/A	No	C,E

\* Notes:

- A. See voltage and phasing per the notes on cover page.  
B. Calculate per load and voltage drop.  
C. All conduit diameters should be per code unless otherwise specified to allow for connector size.  
D. Equipment grounding conductor and any splices must be insulated.  
E. Refer to control and monitoring system installation instructions for more details on equipment information and the installation requirements.

IMPORTANT: Control wires (3) must be in separate conduit from line and load power wires (1, 2).

ARCHITECT  
Legat Architects

1515 5th Avenue, Suite 108  
Moline, IL 61265  
P: 309.517.5536  
www.legat.com

CIVIL/MEP/FP ENGINEER  
RTM Engineering

5137 Utica Ridge Road  
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P: 563.726.6310  
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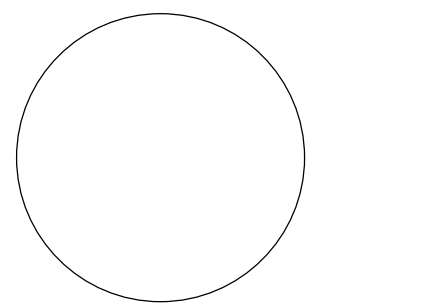
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IMEG

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Bill Bruce Builders

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Eldridge, IA 52748  
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SOFTBALL LIGHTING  
CONTROL PANEL  
DETAIL

EL-101  
CONSTRUCTION