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RE	REVISIONS:		
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PROJECT:

SUDBURY VALLEY
TRUSTEES
BARN RAMP & DECK
REPLACEMENT

18 WOLBACH ROAD SUDBURY, MA 01776

DRAWING TITLE:

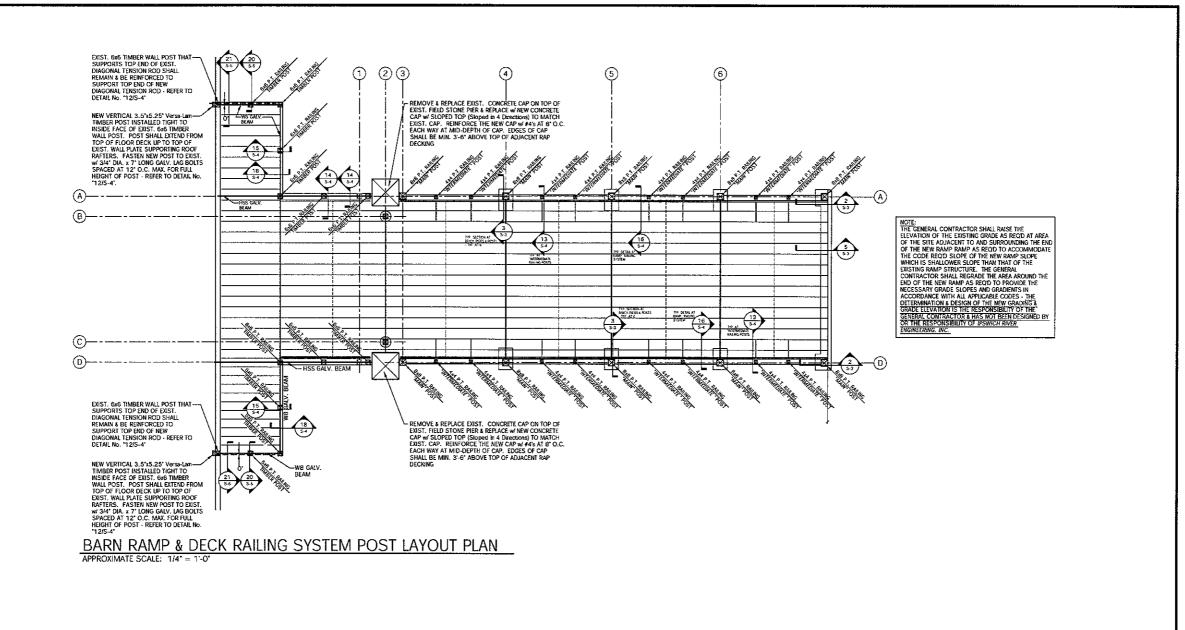
NEW BARN RAMP PIER FOUNDATION PLAN & FRAMING PLAN

DATE: SCALE: OCT. 21, 2008 As Noted

I.R.E.I. PROJECT No.: IR-0221

PERMIT

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NOTE:

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RE	REVISIONS:		

PROJECT:

SUDBURY VALLEY TRUSTEES

Barn Ramp & Deck Replacement

> 18 WOLBACH ROAD SUDBURY, MA 01776

DRAWING TITLE:

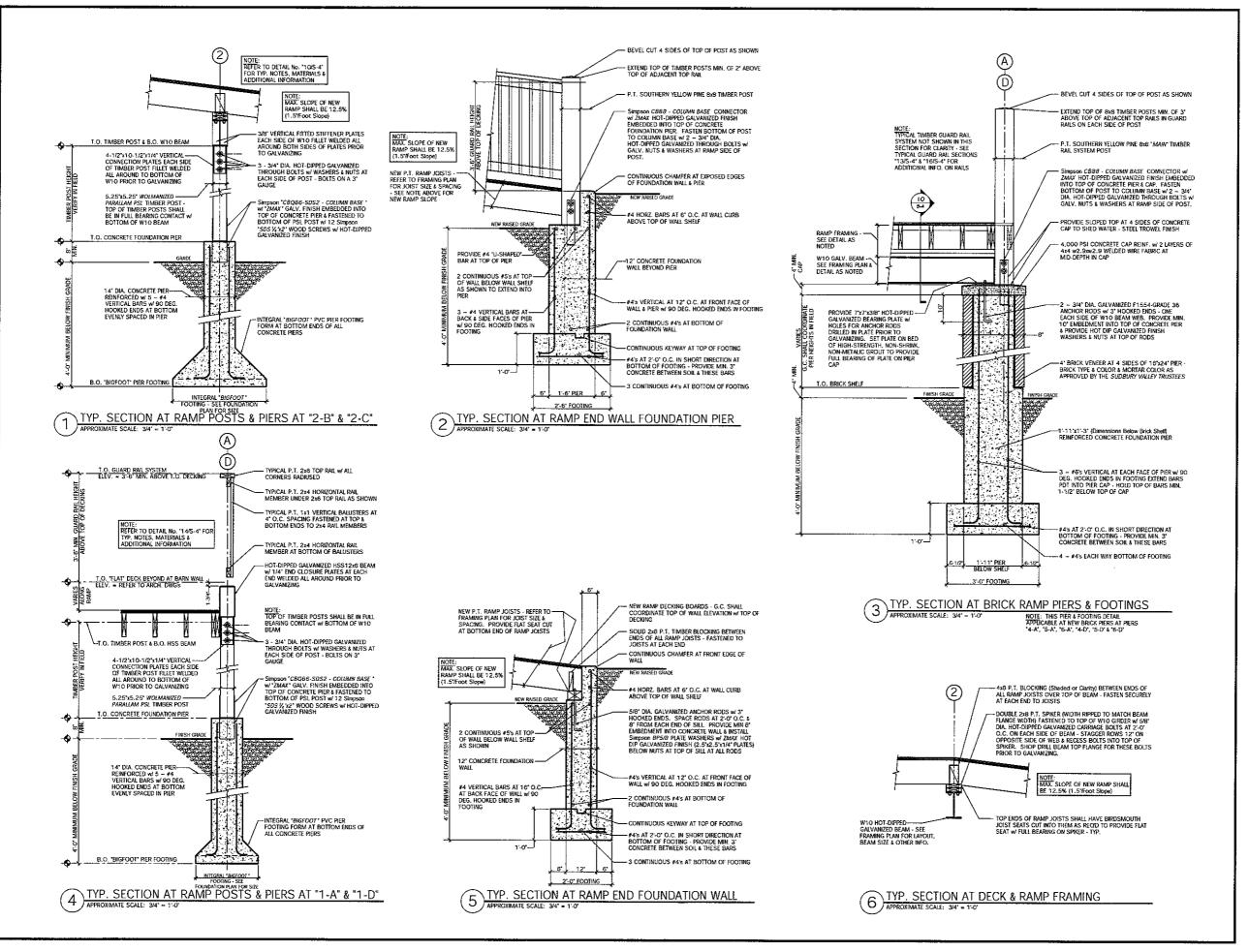
NEW BARN RAMP & DECK RAILING SYSTEM LAYOUT PLAN

DATE: SCALE: OCT. 21, 2008 As Noted

I.R.E.I. PROJECT No.: IR-0221

DRAWING ISSUE: PERMIT

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All Structural Dynamics are diagrammatic, and are not to be scaled for discondum, subsection, such or other measurements. Only larkton discondum, cloyations, and sizes shall be used. All disense

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RE	REVISIONS:		
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PROJECT:

SUDBURY VALLEY **TRUSTEES** BARN RAMP & DECK REPLACEMENT

18 WOLBACH ROAD SUDBURY, MA 01776

DRAWING TITLE:

**NEW BARN RAMP &** DECK FOUNDATION & FRAMING DETAILS

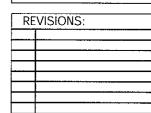
DATE: SCALE: OCT. 21, 2008 As Noted

I.R.E.I. PROJECT No.: IR-0221

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PROJECT:

SUDBURY VALLEY **TRUSTEES** 

BARN RAMP & DECK REPLACEMENT

> 18 WOLBACH ROAD SUDBURY, MA 01776

**NEW BARN RAMP &** FRAMING DETAILS

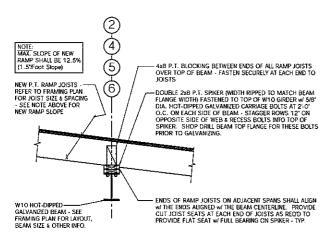
DATE: SCALE: OCT. 21, 2008 As Noted

I.R.E.I. PROJECT No.: IR-0221

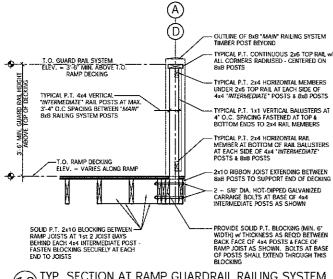
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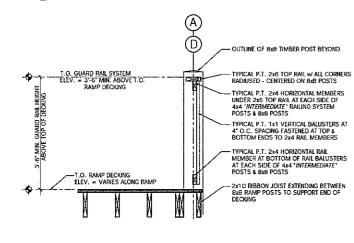
Drawing No.:



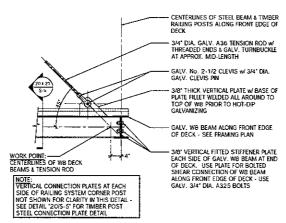
## TYP. SECTION AT W10x22 RAMP BEAMS



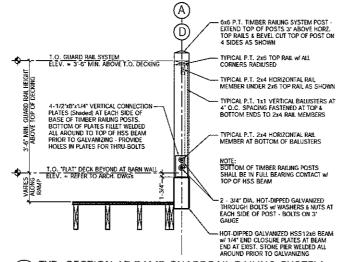
13 TYP. SECTION AT RAMP GUARDRAIL RAILING SYSTEM



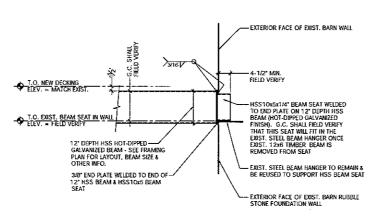
(16) TYP. SECTION AT RAMP GUARDRAIL RAILING SYSTEM



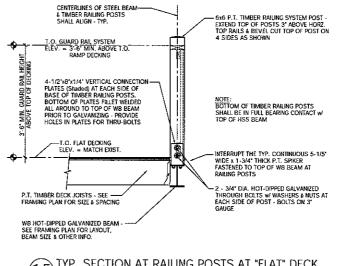
11 TYP. SECTION AT BASE OF TENSION ROD APPROXIMATE SCALE: 3/4' = 1-0'



TYP. SECTION AT RAMP GUARDRAIL RAILING SYSTEM



TYP. SECTION AT END OF HSS BEAMS AT BARN WALL



12 TYP. SECTION AT TOP END OF TENSION ROD

3/4" DIA. x 7" LONG GALV. LAG BOLTS AT 12" -O.C. SPACING FOR FULL HEIGHT OF POST -PREDRILL NEW Versa-Jam POST L DRILL PILOT HOLES IN EXIST. 6x6 TIMBER POST -

NEW 3.5'x5.25' Versa-Lam TIMBER REINFORCEMENT POST (Shown Shaded for Clarity) INSTALLED TIGHT TO INTERIOR FACE OF EXIST, 6x6 POST

- Double galv, nuts at top end of tension ROD - upset threads after 2nd nut has been fully tightened provide galv, washer under nuts

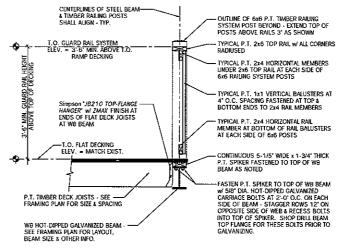
- L4x4x3/8" x 5" LONG w/ 7"x5"x3/8" BEARING PLATE FILET WELDED TO BOTH LEGS OF L4x4 - DRILL HOLES IN ANGLE & PLATE PRIOR TO HOT-DIP GALYANIZING

- 3/4" DIA. GALV. A36 TENSION ROD WITHREADED ENDS & GALV. TURNBUCKLE AT APPROX. MID-LENGTH. DRILL HOLES IN NEW & EXIST. POSTS IN EXTERIOR BARN WALL & IN RAIL SYSTEM

POSTS TO ACCOMMODATE ROD INSTALLATION

EXIST. 6x6 TIMBER POST (Shown Hatched for Clarity) IN EXTERIOR WALL TO REMAIN

(15) TYP. SECTION AT RAILING POSTS AT "FLAT" DECK



TYP. SECTION AT EDGE OF "FLAT" DECK

## STRUCTURAL GENERAL NOTES

1. FOUNDATIONS:

A) ALL NEW FOOTINGS SHALL BEAR ON UNDISTURBED SOIL HAVING A MINIMUM BEARING CAPACITY OF 3,000 POUNDS PER SQUARE FOOT (PSF) OR BEDROCK. SINCE NO GEOTECHNICAL INFORMATION OR ALLOWABLE SOIL BEARING CAPACITES WHERE PROVIDED TO (PSF) OR BEDROCK. SINCE NO GEOTECHNICAL INFORMATION OR ALLOWABLE SOIL BEARING CAPACITES WHERE PROVIDED TO (PSF) OR BEARING CAPACITY OF 3,000 PSF OR BERING ON BEDROCK.

B) THE BOTTOM ELEVATION OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 4-0' BELOW OUTSIDE FINISH GRADE. LOWER FOOTINGS AS REQUIRED TO REACH VIRGIN UNDISTURBED INFORMANCE, BAND. GRAVEL TILL ETC.) SOIL OWNER FOOTINGS AS REQUIRED TO REACH VIRGIN UNDISTURBED INFORMANCE ON HOVEL AND SHALL BE THOROUGHLY COMPACTED WITH PROVIDED BEARING CAPACITY OF FOOTINGS AND FOOTINGS AND HEART OF THE PROVIDED BEARING SHALL BE FINISHED BY HAND WITH A SQUARE BLD SHALL BE THOROUGHLY COMPACTED WITH PROVIDED SHALL BE SHAP AWAY GROUND WATER AS REQUIRED. FOR CONSTRUCTION DURING WINTER FOOTINGS AND PROVIDED SHAP AWAY GROUND WATER AS REQUIRED. FOR ATTHE BEARING SUPPRACES UNTIL THE BUBLINGS IS ENCLOSED AND PRATECTION FROM PREZING TEMPERATURES AT THE BEARING SUPPRACES UNTIL THE BUBLINGS IS ENCLOSED AND PRATECTION FOOTINGS, PIERS AND PILASTERS SHALL BE CAFETED UNDER THE COLUMN ABOVE.

F) ALL REDIFFERENCE THE COLUMN ABOVE.

F) ALL REDIFFERENCE AND THE SESSE OF WALLS ABOVE SHALL BE THE SAME SIZE AND NUMBERS AS THE VERTICAL REINFORCEMENT IN THE PIER. COLUMN PILASTER AND WALLS ABOVE EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE ON THE PIERS. COLUMNS, PLASTES OF WALLS ABOVE SHALL BE THE SAME SIZE AND NUMBERS AS THE VERTICAL REINFORCEMENT IN THE PIER. COLUMN PILASTER AND WALLS ABOVE EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE ON THE PIERS. COLUMNS, PLASTES OF WALLS ABOVE SHALL BE THE SAME SIZE AND NUMBERS AS THE VERTICAL REINFORCEMENT IN THE PIER. COLUMN PILASTER AND WALLS ABOVE EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE ON THE PIERS. COLUMN, PLASTER AND WALLS ABOVE EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE ON THE PIERS.

2. CONCRETE:

AT ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS UNLESS OTHERWISE
SPECIFIED HERRIN. OR NOTED ON THE DRAWINGS.

B) ALL CONCRETE THAT WILL BE EXPOSED TO DEIGNG SALTS, BRACKISH WATER, OR SEA WATER SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI AT 28 DAYS. WITH A MAXIMUM WATER/CEMENT RATIO OF 0.40 (E.E. BASEMENT

LEVEL SLAB-ON-GRADE.

C) MAXIMM ALLOWABLE CONCRETE SLUMP SHALL NOT EXCEED FOUR (4) INCHES.

D) ALL CONCRETE WORK SHALL COMPLY WITH THE LATEST EDITION OF THE ACT "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (AG 1-31): AND "CHAPTER 10" OF THE MASSACHUSETTS STATE BUILDING CODE, SEVENTH EDITION (MSBC). IN CASES OF CONFLICT, THE REQUIREMENTS OF THE MSBC SHALL GOVERN.

E) THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND COORDINATING ALL LAYOUT RELATED TO THE CONCRETE WORK WITH THE LATEST ARCHITECTURAL AND STRUCTURAL DRAWNISS.

3. REINFORCING STEEL:
A) ALL REINFORCING STEEL:
A) ALL REINFORCING STEEL SHALL BE ASTM A615. GRADE 60, AND SHALL BE COLD BENT. DETAILING AND FABRICATION
OF CONCRETE REINFORCEMENT AND RELATED ACCESSORIES SHALL BE IN ACCORDANCE WITH LATEST EDITION OF "ACI 315
DETAILS AND DETAILING OF CONCRETE REINFORCEMENT".
B) WELDED WIRE FABRIC (W. W.F.) SHALL BE ASTM A-185 (Fy = 65 ks MINIMUM). LAP ALL SPUCES 12 INCH MINIMUM AND SECURELY FASTEN W.F. IN PLACE TO MAINTAIN PROPER POSITION DURING CONCRETE PLACEMENT. ALL W.W.F.
SHALL BE FURNISHED IN FLAT SHEETS ONLY AND SHALL BE SUPPORTED ON APPROVED SLAB BOLSTERS ONLY WITH INTEGRAL SAND PLATES.

Itegral sand plates.

C) Provide Clear Cover from reinforcing steel to adjacent concrete surfaces as follows: PROVIDE CLEAR COVER FROM REINFORCING STEEL TO ADJACENT CON SURFACES CAST ACAINST EARTH 3 Inch BOTTOM OF FOOTINGS & HERS 3 Inch at #5 Bars and smaller SIDES OF PICKS 1-1/2 Inch at #5 Bars and larger FORMED SURFACES MOT EXPOSED TO EARTH OR WEATHER: SLASS AND WALLS BEAMS and COLUMNS 1,1/2 Inch SLASS AND WALLS 1,1/2 Inch below to not stab

BEARS and COLUMNS

1.1/2 Inch blow top of slab

THESE DIMENSIONS SHALL BE CONSIDERED ACTUAL AND ARE NOT TO BE ADJUSTED IN EITHER DIRECTION.

D) ALL REINFORCING RODS AND W.W.F. SHALL BE SECURED IN PROPER POSITION ON CHAIRS, STANDES, BOLSTERS,

ETC. AS MANUFACTURED BY RICHMOND SCREW ANCHOR CO. OR CEMENT BRICK - RED CLAY BRICKS ARE NOT ACCEPTABLE.

E) ALL HOOKS SHOWN ON THE DRAWINGS SHALL BE ACT STANDARD LENGTH HOOKS UNLESS OTHERWISE NOTED ON.

THE URAWINGS.

F) THE FOUNDATION CONTRACTOR AND/OR SUBCONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR FULL COMPLIANCE
WITH ALL FEDERAL OSHA SAFETY REGULATIONS AND REQUIREMENTS RELATED TO THE WORK PERFORMED BY THEM ON THIS
PROJECT.

4. TIMBER FRAMING:
AT EXCEPT AT DESIGNATED POSTS AS NOTED ON THE PLANS ALL FRAMING LUMBER USED FOR RAMP & DECK JOISTS,
POSTS, BLOCKING, ETC. SHALL BE PRESERVATIVE TEASTED SOUTHERN YELLOW PINE NO. 1 LUMBER, AND SHALL BEAR THE
STAMP OF THE APPROVING GRADING AGENCY. ALL TIMBER FRAMING LUMBER USED ON THE PROJECT SHALL BE KINN DIRED
LUMBER AND SHALL BE STORED OFF THE GROUND AND COVERED WITH WATERPROOF SHEETING TO PROTECT IT FROM
WEATHER.

DILMINER AND SHALL BE STORED OFF THE GROUND AND COVERED WITH WATERPROOF SHEETING TO PROTECT IT FROM WEATHER.

BY UNIESS OTHERWISE INDICATED ON THE DRAWINGS THE BASES OF ALL TIMBER POSTS THAT ARE SUPPORTED ON CONCRETE PRESENS SHALL BE SECURED IN PLACE WITH SUPPORTED STORED STATES. AT THE STRUCTURE STORED STATES AS SIMPSON 'CBBB' POSTS AS STATES AS TOMMINAL GAS TIMBER POSTS. ALL POST BASES SHALL HAVE SIMPSON 'ZBBB' POSTS AS STATES AS THE STRUCTURE OF GALVANIZED FINISH. ALL FRAMING CONNECTIONS AS SIMPSON 'CBBB' POST BASES AT NOMINAL GAS TIMBER POSTS. ALL POST BASES SHALL HAVE SIMPSON 'ZBBB' TO ALL SUPPORTS. PROVIDE REQUIRED SIMPSON STRONG-THE FRAMING CONNECTIONS AS INDICATED ON THE DRAWINGS AND AS REQUIRED AT ALL FLUSH FRAMED CONNECTIONS.

D) ALL TIMBER FRAMING SHALL COMPLY WITH THE ATS EDITION OF THE MASSACHUST'S STATE LUDING COOK.

E) THE GENERAL CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD (S.E.R.) OF ANY AND ALL CHANGES SHALL BE FASTENED IN ACCORDANCE WITH THE LATES TEDITION OF THE MASSACHUST'S STATE BUILDING COOK.

E) THE GENERAL CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD (S.E.R.) OF ANY AND ALL CHANGES TO TIMESE COMPONENTS AND MATERIAL SUBSTITUTIONS FROM THOSE SHOWN ON THE STRUCTURAL DRAWMINGS AND NOTIFICATIONS FROM THOSE SHOWN ON THE STRUCTURAL DRAWMINGS AND NOTIFICATIONS FROM THOSE SHOWN ON THE STRUCTURAL DRAWMINGS AND NOTIFICATIONS FROM THOSE SHOWN ON THE STRUCTURAL DRAWMINGS AND NOTIFICATIONS FROM THOSE SHOWN ON THE STRUCTURAL DRAWMINGS AND NOTIFICATIONS FROM THOSE SHOWN ON THE STRUCTURAL DRAWMINGS AND NOTIFICATIONS FROM THOSE SHOWN ON THE STRUCTURAL DRAWMINGS AND NOTIFICATIONS FROM THOSE SHOWN ON THE STRUCTURAL DRAWMINGS AND NOTIFICATIONS FROM THOSE SHOWN ON THE STRUCTURAL DRAWMINGS AND NOTIFICATIONS FROM THE STRUCTURAL DRAWMINGS AND NOTIFICATIONS FROM THE STRUCTURAL DRAWMINGS AND NOTIFICATIONS FROM THE STRUCTURAL DRAWMINGS AND THE STRUCTURAL DRAWMINGS AND NOTIFICATIONS FROM THE STRUCTURAL DRAWMINGS AND THE STRUCTURAL PROVIDED THE STRUCTURAL DRAWMINGS AND THE STRUCTURAL PROVI

5. PARALLEL STRAND LUMBER TIMBER POSTS - DESIGNATED AS "PARALLAM" OR "PSL" ON DRAWINGS A)" ALL PARALLEL STRAND LUMBER POSTS DESIGNATED ON THE DRAWINGS SHALL BE "LOVIN WOLLMANIZED PARALLAM PSL PRESERVATIVE TREATED TIMBER POSTS (TREATED BY THE POST MANUFACTURER) AS MANUFACTURE YELDOWN WEIGHT OF MENT OF MENT OF MENT OF MANUFACTURE OF THE DESIGNATED ENGINEERED TIMBER WEYERHAEUSER, OR APPROVED EQUAL, MEETING THE STRUCTURAL PROPERTIES OF THE DESIGNATED ENGINEERED TIMBER MATERIAL PROPERTIES OF THE DESIGNATED ENGINEERED TIMBER WATERIAL PROPERTIES OF THE DESIGNATED TIMBER WATERIAL PROPERTIES OF THE DE

B) ALL WOLMANIZED PARALLEL STRAND LUMBER POSTS (PSL) SHALL HAVE THE FOLLOWING ALLOWABLE DESIGN

5) ALL WOLMANIZED PARALLEL STRAND LUMBER POSTS (PSL) SHALL HAVE THE FOLLOWING ALLOWABLE DEGRAY
PROPERTIES:
Fb = 2,117 PSI
Fc = 241 PSI
Fc = 2,418 PSI
Fc = 2,538 PSI (Compression Parallel to Grain)
Fc = 53.58 PSI (Compression Perpendicular to Grain)
E = 1,690,000 PSI
C) THE GENERAL CONTRACTOR AND THIS SUBCONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD
(S.E.R.) OF ANY AND ALL CUTS, CORED HOLES AND NOTCHES OTHER THAN THOSE INDICATED ON THE APPROVED SHOP DRAWINGS SO THE S.E.R. CAN REVIEW THE MODIFICATIONS PRIOR TO INSTALLATION.

6. LAMINATED VENEER LUMBER BEAMS AND JOISTS - DESIGNATED AS "LVL" OR "Versa-Lam" ON DRAWINGS A) "ALL LAMINATED VENEER LUMBER BEAMS, JOISTS & MEMBERS SHALL BE" VERSA-LAM TUMBER AS MARINACTURED BY BOISE CASCADE, OR APPROVED EQUAL MEETING THE STRUCTURAL PROPERTIES OF THE DESIGNATED Versa-Lam MATERIAL

B) ALL LAMINATED VENEER LUMBER (LVL) Versa-Lam MATERIAL SHALL HAVE THE FOLLOWING ALLOWABLE DESIGN

B) ALL LAMINATED VENLER LUMBER (LVL) VETSE-LAMINATED VENEER BAVE THE FOLCOTION FALL THAT SERVE THE PROPERTIES:

FD = 3.100 PSI

FD = 285 PSI

E = 2.000,000 PSI

C F ASTER EACH PLY IN MULTIPLE MEMBER LAMINATED VENEER BEAMS TO ADJACENT PLYS WITH 3 ROWS OF SIMPSON SDS25300 3' LONG WOOD SCREWS WITH SCREWS IN EACH ROW AT 6' O.C. SPACING FOR 2-6' LENGTH EACH SIDE OF INTERSECTING BEAMS AND HEADER MEMBERS FRAMING INTO SING OF THE MITTHEY BEAM MEMBERS.

SIDE OF THE MULTI-PLY EARM MEMBER.

D) THE GENERAL CONTRACTOR AND THIS SUBCONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD (S.E.R.) OF ANY AND ALL CLITS. CORED HOLES AND NOTCHES OTHER THAN THOSE INDICATED ON THE APPROVED SHOP DRAWINGS SO THE S.E.R. CAN REVIEW THE MODIFICATIONS PRIOR TO INSTALLATION.

STRUCTURAL STEEL:
 A) TAIL STRUCTURAL STEET ROLLED SHAPES, PLATES, BARS, AND "HSS" HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO THE

ALL SYRUCTURAL STEEL ROLLED SHAPES, PLATES, BARS, AND "HSS" HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO THE FOLLOWING.

ASTIM ASDO, "GRAD B (f)" = 46 kil)

B) ALL STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST ALL S.C. SPECIFICATIONS. CONNECTIONS AT HSS MEMBERS SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST ALL S.C. SPECIFICATIONS. CONNECTIONS AT HSS MEMBERS SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST BUTKON TO THE STRUCTURAL SECTIONS CONNECTION SHAPES SHALL BE PARKED TO CONFORM WITH THE LATEST BUTKON THE ALL S.C. THOLLOW STRUCTURAL SECTIONS CONNECTION MANUAL",

() ANCHOR RODS: ALL COLUMN BASE PARKES SHALL HAVE A MINIMUM OF 4 ANCHOR RODS UNLESS OTHERWISE NOTED ON THE DRAWNINGS. AREHOR RODS: SHALL BE FABRICATED FROM ASTIM AOT OR ASTIM TIPS & GRAD SE STEEL IN THE SIZES. CONNECTIONATION SAD FIRSTHAM. BE STRUCTURAL DRAWNINGS. ALL MICHOR RODS WASHES & NUTS SHALL HAVE HOT DIPPED CALVANIZED FRISH.

DIFFERENCE OF THE STRUCTURAL HAVE HOT DIPPED CALVANIZED FRISH.

DIFFERENCE OF THE STRUCTURAL HAVE HOT DIPPED CALVANIZED FRISH.

FIRST SHALL HAVE HOT DIPPED CALVANIZED FRISH.

ET SHAP AND FIELD BOTTED CONNECTIONS SHALL BE BY HIGH-SINEWEITH BUILDS WITH HUI-DIPPED GREVANALED FINSH. ALL WELDING SHALL BE SHOP WELDING AND SHALL BE COMPLETED PRIOR TO GALVANIZHO. ALL BOLTED CONNECTIONS SHALL BE DETAILED FOR MARMADINE NO FRACTIONS OF SUPPORTED BLENKEY AND ALL WEBLING PRILE STRENGTH OF MARMERS TO DE WELDED, URLESS OTHERWISE NOTICE. ALL WELDED CONNECTIONS SHALL DEVELOP FILE STRENGTH OF MARMERS TO BE WELDED. ALL STRENGTH OF MARMERS TO BE WELDED. AND LONGTON THE STRENGTH OF MARMERS SHALL BE AND ELISING FROM ELECTRODES. WELDING SHALL COMPLY WITH A S.C. AND A.W.S. CERTIFIED WELDERS. WELD SIZES NOT MORESTED ON THE DRAWINGS SHALL BE MINIMUM WELD SIZES. AS REQUIRED BY THE A.S.C. AD SALL BE MINIMUM WELD SIZES. AS REQUIRED BY THE A.S.C. C. BASED ON THE THOCKNESS OF THE THOCKER MEMBER IN THE CHAMMER CONNECTION.

UNLESS OTHERWISE NOTED. ALL WELDED CONNECTIONS SHALL BE PARFORDED BY A.W.S. CERTIFIED WELDERS. WELD SIZES NOT INDICATED ON THE DRAWINGS SHALL BE AWAY. SERVICE PROJECTIONS AND SHALL BE PEPEROBBED BY A.W.S. CERTIFIED WELDERS. WELD SIZES NOT INDICATED ON THE DRAWINGS SHALL BE AWAY. SERVICE AND SIZES AS REQUIRED BY THE ALS C., BASED ON THE THOCKNESS OF THE THICKER MEMBER IN THE CONNECTIONS. SHALL BE MADE USING 3.0° TRANSFER PER STATE THE THICKER MEMBER IN THE CONNECTIONS SHALL BE MADE USING 3.0° TRANSFER PER STATE THE THICKER MEMBER IN THE CONNECTIONS WITH STRUCTURAL STEEL CONNECTIONS. AS SECRIFICATION OF THE THICKER MEMBER THE THICKER MEMBERS. THE STRUCTURAL STEEL CONNECTIONS NOT SECRIFICATION OF THE STRUCTURAL STEEL CONNECTIONS. AS SECRIFICATION OF THE STRUCTURAL STEEL CONNECTIONS NOT SECRIFICATION AND COMPLETELY DETAILED ON THE STRUCTURAL DRAWINGS. SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER P.E.). RETAINED BY THE STRUCTURAL STEEL AND CONNECTION 6.0° CONNECTION OF SECRIFICATION OF THE STRUCTURAL STEEL AND CONNECTION 6.0° CONNECTION OF SECRIFICATION OF THE STRUCTURAL STEEL AND CONNECTION OF THE STRUCTURAL STEEL AND CONNECTION OF THE STRUCTURAL OF THE STRUCTURAL OF THE STRUCTURAL OF THE STRUCTURAL STEEL AND CONNECTION OF THE STRUCTURAL STEEL AND CONNECTION OF THE STRUCTURAL OF THE STRUCTURAL STEEL AND CONNECTION OF THE STRUCTURAL STEEL AND CONNECTIONS OF THE STRUCTURAL STRUCTURAL STEEL AND THE AND CONNECTIONS OF THE STRUCTURAL STRUCTURA

THE PROPOSED AT MACHINE SHEET PROPRIES AND THE SHEET SHEET PROPRIES AS REQUIRED ARROWN COLUMNS TO SUPPORT FLOOR AND ROOF PECK.

BY NO HOLES SHALL BE BURNED OR CUT IN STRUCTURAL STEEL MEMBERS IN THE FIELD WITHOUT CONSENT OF THE STRUCTURA. RINGHER FOR EACH HOLESCALE IN EACH HOLESCALE PROPRISES IN THE FIELD WITHOUT CONSENT OF THE STRUCTURAL SHEET PROPRIES AND THE SHOP WHEREVER POSSIBLE.

BE PERFORMED IN 18 SHOP WHEREVER POSSIBLE.

S) THE COMPANICIOS OR STEEL ERECTOR, SHALL FURNISH AND INSTALL ALL REQUIRED TEMPORARY BRACING TO REP THE STEEL STRUCTURE IN PROPRIE POSSIBLE.

S) THE COMPANICIOS OR STRUCTURE, SHALL FURNISH AND INSTALL ALL REQUIRED TEMPORARY BRACING TO REP THE STEEL STRUCTURE IN PROPRIE POSSIBLE.

THE ROOF ECK HES EXPERIENCE BOOKENS AND THE PROPARED WITH THE CONCRETE FLOOR SLOSS HAVE BEEN PLACED AND CURED. DIT REPORT OF THE STRUCTURE, AND THE PROPARED HIS THE PROPARED HIS THE PROPARED BY THE PROPARED BY THE PROPARED HIS THE PROPARED BY THE PROPARED

8. TEMPORARY SHORING AND BRACING:

A) THE GENERAL CONTRACTOR SHALL REMOVADE ALL TEMPORARY SHORING AND BRACING RECESSARY TO PROTECT THE EXISTING
STRUCTURE AND THE NIBY STRUCTURE FROM DAMAGE DUSING THE WORK. ALL SHORING AND BRACING SHALL BE INSTALLED BY QUALIFIED
PRISONING, EXPERIENCED WITH THIS SPECIFIC TYPE OF WORK.

B) ALL SHORING SHALL BE FOUNDED ON STRUCTURE LEBEMENTS CAPABLE OF SUPPORTING THE LOAD. RESHORE TO LOWER LEVELS AS
REQUIRED.

C) PROVIDE ALL NECESSARY BRACING TO HOLD STRUCTURAL COMPONENTS IN POSITION UNTIL PERMANENT BRACES ARE INSTALLED.

9. MISCELLANEOUS:

A) THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DETAILS AND DIMENSIONS WITH THE LATEST ARCHITECTURAL DRAWINGS
BEFORE PROCEDURG WITH THE WORK. NOTIFY THE STRUCTURAL BYDINGER OF ANY DISCREDANCIES PRIOR TO CONSTRUCTION.

B) PROVIDE ALL SHORMS (NECESSARY TO BRACE THE BUILDING DURING CONSTRUCTION.

C) ALL WORK SHALL COMPLY WITH THE CURRENT EDITION OF THE MASSACHUSETTS STATE BUILDING CODE, BUS DRIMON,

D) SETTING OF COLUMN LEVELING PLATES SHALL BE DONE USING NON-SHRINK GROUT AS MANAFACTURED BY THE STAR PRODUCTS

NC. (1980-24-3-22-06). OR APPROVED EQUAL. GROUT SHALL BE INSTALLED IN STRUCT ACCORDANCE WITH MANUFACTURERS

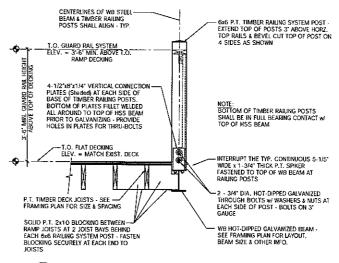
SECENCIATIONS.

SPECIFICATIONS.

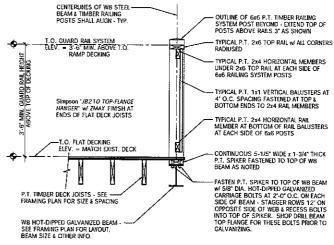
SPECIFICATIONS.

B THE STRUCTURAL DEAVINGS SHALL HOT BE SCALED TO DETAIN DIMENSIONS, SIZES, OFFSETS, SPACING, ETC. FOR ANY STRUCTURAL ENTIRE MINISTERS, SPACING, ETC. FOR ANY STRUCTURAL FRANKING MEMBERS, FORMANINGS SHALL BE VERRED AND COORDINATED WITH THE LEBERS PROPERTICINED, DEAWINGS, IF A CORNIC OF DESCRIPIONATED WITH THE LEBERS PROPERTICINED, DEAWINGS, IF A CORNIC OF DESCRIPIONATED WITH THE LEBERS PROPERTICINED, DEAWINGS, IF A CORNIC OF DESCRIPIONATED SHALL SERVICE INVESTMENT OF DEAVINGS. THE CONTRACTOR SHALL SERVICE INVESTMENT OF DEAVINGS OF THE ARCHITECTURAL DEAWINGS, THE CONTRACTOR SHALL SERVICE PROPERTICINES AND WITH THE VIOLENCE OF THE ARCHITECTURAL DEAVINGS. FOR THE ARCHITECTURAL DEAVINGS. TO PROPERTION WITH THE VIOLENCE OF THE ARCHITECTURAL DEAVINGS OF THE ARCHITECTURAL PROPERTIES AND CORNIC REVIEW ENGINEERS, INC. AND MUST HAVE EQUAL PROPERTIES AND LOAD CARRING CAPACITIES AS DOCUMENTED IN THE MANIFECTURES CALESCAPED, AND CONSTRUCTING ALL NOW THAT THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING ALL NOW THAT THE THE ARSACHUSERS STATE BUILDING CODE - SECURE HERDER, INC. AND THE PROPERTIES AND CONSTRUCTING ALL NOW THAT THE CODE REQUIRED TOO DESCRIPTORY LINE OF THE THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTING ALL NOW THAT THE CODE REQUIRED TOO DESCRIPTOR THE FORMAN AND DECK HAVE BEEN DESIGNED TO SUPPORT THE CODE REQUIRED TOO DESCRIPTORM LIVE LOAD.

H) THE NEW RAMP AND DECK HAVE BEEN DESIGNED TO SUPPORT THE CODE REQUIRED TOO DESCRIPTORM LIVE LOAD.



## TYP. SECTION AT RAILING POSTS AT "FLAT" DECK



21 TYP. SECTION AT EDGE OF "FLAT" DECK & RAILING

IPSWICH RIVER ENGINEERING, INC -STRUCTURAL ENGI

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RE	REVISIONS:		
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PROJECT:

SUDBURY VALLEY TRUSTEES BARN RAMP & DECK REPLACEMENT 18 WOLBACH ROAD SUDBURY, MA 01776

DRAWING TITLE:

NEW BARN RAMP & **DECK FRAMING DETAILS &** STRUCTURAL **GENERAL NOTES** 

DATE OCT.	2008

S-5

SCALE: I.R.E.I. PROJECT No.: IR-0221 DRAWING ISSUE Drawing No.: **PERMIT**